NUMBER STORIES

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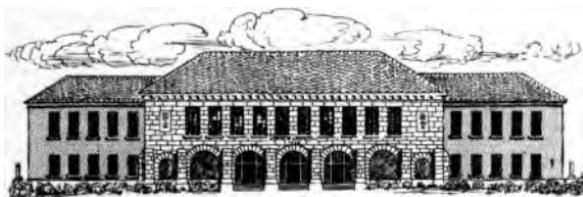
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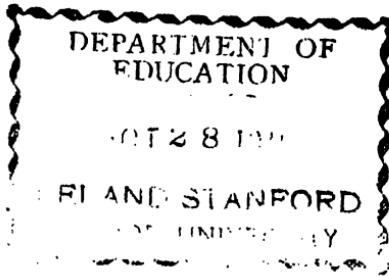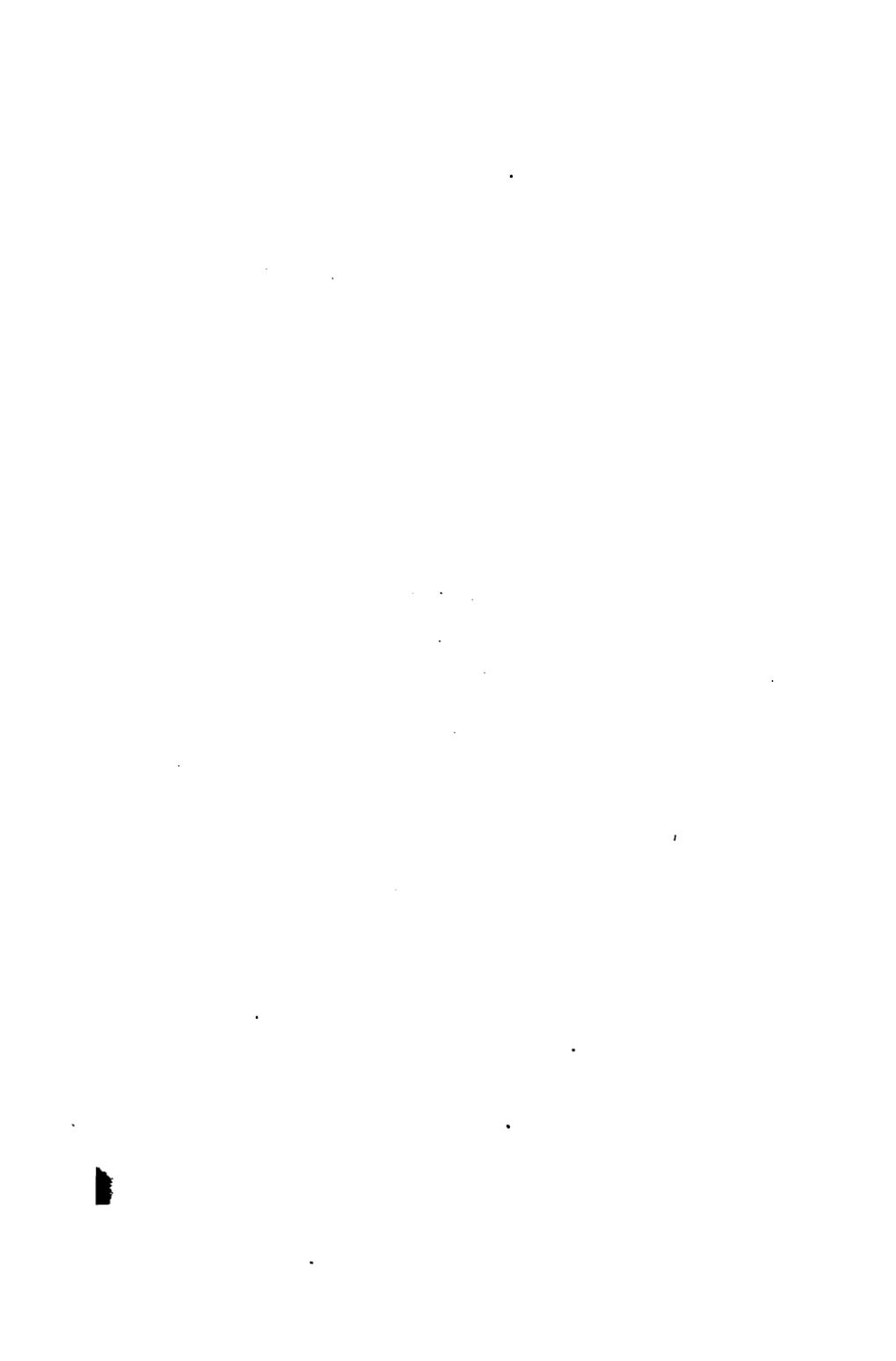
NUMBER STORIES.

BY

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SUGGESTIONS.

THESE lessons are intended to supplement the careful and systematic teaching of numbers, from seven to one hundred. After a new number has been thoroughly studied by means of objects, the lesson which is devoted to that number may be read.

The reading is made simple by the use of familiar words, frequent repetitions, and short sentences, in order that the child's attention may be wholly given to the combinations.

The questions can be answered orally, or the following plan may be adopted with little children, or with older ones at the first reading of a lesson : one child may read while others perform the combinations as they are mentioned, with splints, or with lines or figures at the blackboard.

It is hoped that the book may be of value also for purposes of review, especially in securing rapidity of thought and facility of expression.

The author has tested these lessons in classes of children from seven to eleven years of age.

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NUMBER STORIES.

CHAPTER I.

" There's no dew left on the daisies and clover,
  There's no rain left in heaven;
I've said my seven times over and over —
  Seven times one are seven.

"I am old, so old I can write a letter,
  My birthday lessons are done;
The lambs play always — they know no better;
  They are only one times one."

<div align="right">JEAN INGELOW.</div>

KATE AND BOB.

Bob Snow is six years old.

Kate is one year older.   How old is Kate?

Kate is seven times one year old.   How old is she?

She has five roses.   Bob has four.

How many have they both ?

Kate had five roses.   Bob gave her three.

How many had she then ?

Bob has four tin tops and three wooden tops. How many tops has he ?

Bob swings Kate three times in the swing.

Papa swings her four times.

How many times do they both swing her ?

Bob has four white mice.

Kate has one-half as many.   How many has Kate ?

Bob and Kate played in the sand.

He made six forts.   She made half as many.

How many did she make ?

Kate is seven years old.   Fannie is three years younger.

How old is Fannie ?

Fannie is Kate's little sister.

MAY AND TOM.

May Frost is two years old.

Tom is seven years older.   How old is Tom ?

May has two big dolls and six little dolls. How many dolls has she ?

Kate had six kittens, but she gave three to May.

How many has Kate now?

Tom made eight snowballs.

Bob made half as many. How many did Bob make?

May made one-fourth as many as Tom.

How many did she make?

Six boys are playing ball.

One-third of them are May's brothers. How many are her brothers?

Two times three boys came to play with Bob. How many boys came?

Three boys came to Tom's door.

One-third of them spoke to him. How many spoke to Tom?

They met six girls and three boys.

How many children did they meet?

How many mouths have two children?

How many feet have two children?

How many more feet has a dog than a boy?

How many hands have three children?

How many feet have four chickens?

How many hands have you and I both?

How many fingers have two hands?
How many feet have five children?
How many ears have five children?
I saw two brown eyes and eight blue eyes.
How many eyes did I see?

I have one-half of ten cents.
How many cents have I?
If I have half a dime, how many cents have I?
Tom has one-third of nine cents.
How many cents has he?
He will spend one-fourth of four cents.
How many cents will he spend?
If Tom writes *cat* three times, how many letters must he make?
If he writes *roses* two times, how many letters does he make?
If he writes *star* two times, how many letters does he write?

CHAPTER II.

MR. FROST'S COWS.

Tom Frost's father has ten cows.

Six are red ; the others are white. How many are white ?

Tom drives six red cows and four white cows to the pond.

How many cows does he drive ?

Four of the cows are old. The rest are young.

How many young cows are there ?

Mr. Frost has ten cows.

He keeps seven cows in his red barn, and the others in the white barn.

How many does he keep in the white barn ?

If he sells three cows, how many will he have ?

If he sells five cows, how many will he have ?

BOB'S DOVES.

Bob had four doves and five doves. How many doves had he ?

Bob had nine doves.   One third of them were white.   How many white doves had he?

He gave four to his sister.   How many had he then?

WHAT MAY DID WITH HER ROSES.

May had five red roses and three white roses.
How many roses had she?
She gave one-fourth of the roses to Kate.
How many did she give her?
May gave one-eighth of her roses to Tom.
How many did she give him?
She had a bunch of wild roses.
She gave two-eighths of them to mamma, and one-eighth to Bob.
How many eighths of the bunch did she give away?

KATE'S THREE APPLES.

Kate bought three apples for one half-dime.
How many cents did she spend?
She gave one apple to May.   She gave one to Tom.   She kept one for herself.
May cut her apple into three parts.
She gave one-third to Kate and one-third to Tom.

How much did she give away?
Kate cut her apple into four parts.
She gave away two-fourths and one-fourth.
How much did she give away?
How many parts of her apple had she left?

CHAPTER III. [W. and R., 18.

It is ten o'clock.   In an hour what time will it be ?
What time was it two hours ago?
What time was it three hours ago?
How many hours is it since seven o'clock?
How many hours is it since one o'clock?

Eleven little birds sat on a tree near a window.
Harry's mother opened the window.   Two little birds flew away.
Harry's mother was sewing.   She had ten spools of cotton.
Two spools are black.   The others are white. How many white spools had she?

She has used four spools. How many has she now ?

She has in her basket seven spools of silk and two spools of linen thread.

How many spools has she in her basket?

HARRY IN THE BARN.

A ladder stands against the haymow.

The ladder has ten steps.

Harry has gone up three steps.

How many steps has Harry to go before he gets to the top ?

He has found six eggs in the hay.

If he finds four more, he will have eggs.

He has eight eggs and two eggs. How many eggs has he?

He has seven old hens and four young hens. How many hens has he?

He has eleven hens. Nine are white. The others are black.

How many black hens has he?

Harry is going to sell four of his eleven hens. Then he will have   hens.

He is making a coop for his chickens. He put up nine slats.

Then he took away two. How many slats did he leave?

He has put in six nails. How many more must he put in to have ten?

"Dear little bare feet, dimpled and white,
In your long nightgown wrapped for the night,
Come, let me count all your queer little toes,
Pink as the heart of a shell or a rose.
One is a lady that sits in the sun,
Two is a baby, and three is a bun,
Four is a lily with innocent breast,
Five is a birdie asleep on her nest."

Littell's Living Age.

CHAPTER IV. [W. and R., 20.

The black hen had nine eggs in her nest.

Four were broken. How many were left?

Fannie needs eight eggs to fill her basket. She has only three. How many more must she have?

Harry has a basket of eggs.

Five are broken, and there are three whole ones.

How many eggs has he?

Harry has sold eight eggs to his mamma.

He has three left.   How many had he?

There were eleven books on the table.

We took eight away.   How many are left?

If we put them back, and then take away seven, how many will be left?

Fannie put nine sheets of paper on the table.

Then she took away five.   How many sheets of paper did she leave?

The cook put eleven cups on the kitchen table.

Then she took three away.   How many were left?

There were ten cups on the table.

I put three more there.   How many were there then?

Cook has taken three cups from the dining-table.

Eight are there now.

How many were there at first?

Fannie holds up five fingers of one hand and four of the other.

How many fingers does she hold up?

Now she holds up five fingers and five fingers, or   fingers.

Will is nine years old.   How old was he four years ago?

How old will he be in two years?

Nine children were crossing Brimmer Street.

Seven were boys.   How many girls were there?

Tom had eleven cents.   He has spent one cent.   How many has he?

How many more than three cents has he?

The first three years of Tom's life were spent in the country.

The past six years he has spent in Boston. How old is Tom?

How many days after the third of May is the eleventh?

How many days later than the third of May is the tenth?

It is four hours since six o'clock.   What time is it?

It is the ninth of June.   Two days ago what was the date?

CHAPTER V.

THE BEES AND THE FLOWERS.

I had eleven flowers in a vase at my window.

A bee came to all but two of them.

To how many did the bee come?

Nine flowers were of bright colors. The others were dull green, like their own leaves.

How many were of dull colors?

The bee went only to the bright flowers.

This morning, at my door, I counted eleven bees.

Seven were sipping honey from the clovers.

The others were flying about the honeysuckle.

My honeysuckle then had eleven bunches of sweet, yellow flowers.

Since then, I have picked three bunches. How many are there?

A bee has four wings. A robin has half as many. How many wings has a robin?

Kate planted eleven morning-glory seeds.

Only nine little plants came up. How many seeds did not grow?

Alice planted nine acorns.

One-third of them did not come up.

How many did not come up?

Kate has planted eight beans.

Alice has planted one-eighth as many.

How many has Alice planted?

John has planted half as many as Kate.

How many has he planted?

How many beans have Alice, Kate, and John planted?

Ten little frogs sat on a log.

Six jumped into the pond. How many were left on the log?

Eleven ants were busy at their ant-hill when one got hurt.

Two others stopped work to take care of him.

How many were still at work?

Charlie has six nuts in his hand.

One-half of them are chestnuts. How many chestnuts has he?

How many more nuts must he find, to have ten nuts?

One-third of my six doves are white.

How many white doves have I ?

May is three years old.   Her cat is one-third
as old.   How old is her cat ?

Robert paid one-half of ten cents for a rose-
bud.   How much did he pay ?

Butterfly has six feet,
    Robin, only two; —
Just as many busy feet,
    Baby dear, have you.

Butterfly has four wings,
    Robin, only two; —
Not the tiniest of wings,
    Baby dear, have you.

Not two wings like Robin,
    But soft hands, one, two, —
Loving hands for work and play,
    Baby dear, have you.

CHAPTER VI. [W. and R., 23.

It is the fourth of May.   In seven days what
will be the date ?

How many days will it be before the eleventh of May?

It is five minutes past ten o'clock.

In six minutes what time will it be?

What date is eight days after the third of May?

What date is two days before the eleventh of May?

Cora has seven cousins who are older than she.

She has four cousins who are younger.

How many cousins has she?

Alice has eleven cousins. Marion has four.

How many more cousins has Alice than Marion?

Cora's cat is eight months old.

Marion's cat is three months older.

How old is Marion's cat?

Bella has four blue ribbons and seven white ribbons.

How many ribbons has she?

Nancy had six spools of red silk and five spools of white silk.

How many spools has she?

Margaret is nine years old.   Allan is eleven.
How much older is Allan than Margaret ?

AT SCHOOL.

It is eleven minutes after ten o'clock.

What time was it five minutes ago ?

Nancy was reading at three minutes after ten o'clock.

Harry did not read until eight minutes later. At what time did Harry read ?

Cora read three minutes before Harry.

At what time did Cora read ?

Yesterday, Harry was ready for recess at five minutes past eleven.

Cora was not ready until six minutes later.

At what time was Cora ready ?

Harry opened the windows at two minutes after eleven.

They were open nine minutes.

At what time were they closed ?

After recess Nancy had eleven flowers.

One was a buttercup.   The others were daisies.   How many daisies had she ?

She gave away six daisies.   How many flowers had she then ?

CHAPTER VII. [W. and R., 24.

MRS. FROST'S MILKMAN.

The milkman left four cans at one house and three at the next.

How many did he leave at both houses?

Each can that he left at the first house had two pints of milk in it.

How many pints did he leave at the first house? How many quarts did he leave?

How many gills were there in each can?

At the second house, each can had one quart of milk in it.

He left three cans there. How many pints did he leave at the second house?

He left eight pints at the first house.

How many more pints did he leave at the first house than at the second?

Saturday morning, he left three cans of milk and three cans of cream at Mrs. Snow's house.

How many cans did he leave?

He left six cans of milk and four cans of cream at Mrs. Frost's.

How many cans did he leave?

How many more cans did he leave at Mrs. Frost's than at Mrs. Snow's?

If each pint of milk costs four cents, what does one quart cost?

This milkman has eleven cows.

He keeps eight of them in the south pasture.

The others he keeps in the west pasture.

How many does he keep in the west pasture?

It is five hours after six o'clock. What time is it?

It is two hours after nine o'clock. What time is it?

Five hours ago it was six o'clock. What time is it now?

How many covers have five books?

Mabel gave one rose to each of eleven girls.

How many roses did she give away?

If a glove has three buttons, how many buttons has a pair of gloves?

How many fingers has a pair of gloves?

> Good Mother Pussycat,
>   Soft and gray,
> Are all your family
>   Well to-day?

Five coal black kittens,
One snowy ball —
How many babies,
Pussy, in all ?

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CHAPTER VIII. [W. and R., 25.

KATE.

Kate's baby brother went to sleep at ten o'clock.

He woke just at noon. How long was his nap?

In one month he will be twelve months old.

How old is he now ?

How old was he three months ago ?

He had twelve pairs of socks.

He has outgrown ten pairs. How many can he wear now ?

When the clock strikes three strokes and nine strokes, what time is it ?

The clock struck twelve, but Kate did not hear the first three strokes.

How many did she hear ?

How many hours is it since three o'clock ?

How many hours are there between nine o'clock and twelve o'clock?

Kate plays with her cup and ball.

Tuesday, the ball fell into the cup twice.

She lost it ten times.

How many times did she toss it?

Kate cut twelve roses.   Only three were full-blown.

How many buds did she cut?

She gave two roses to the baby's nurse.

They were wild roses.   Each had five petals.

The petals began to fall.

Soon there were only seven petals left on the two roses.

The other   lay on baby's white dress.

The buds were all open at twelve o'clock.

This was three hours after they were cut.

At what time were they cut?

Monday afternoon, Kate's papa left Boston at three o'clock.

He got to Albany at twelve.

How many hours did he ride in the cars?

Nurse went to sleep at ten o'clock.

How many hours after she went to sleep did the clock strike twelve?

The baby went to sleep three hours before his nurse.

At what time did he go to sleep?

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CHAPTER IX. [W. and R., 27.

Wednesday, Tom's papa walked twelve miles.
Tom walked only one-fourth as far.
How far did Tom walk?
Six kittens were asleep in a basket.
One-third of them awoke.
How many were still asleep?
Susie's kitten is one-third as old as three-year-old Susie.
How old is the kitten?
The milkman left four cans of milk at Mrs. Gray's.
He left half as many at Mrs. Black's.
How many did he leave at Mrs. Black's?
Jack has three more tops than Robert.
Robert has nine tops. How many has Jack?

DOMINOES.

Jack and Robert have opened the box of dominoes.

Jack takes one.   Then Robert takes one.

Jack's domino has one-half of ten dots at each end.

It has, at both ends, two less than twelve dots.

How many has it in all?

Robert's has, at one end, one-half of eight dots.

At the other it has eleven less than twelve dots.

How many dots has it at both ends?

Jack's next domino has six dots and six dots.

How many dots has it?

Robert's has, at one end, *eleven less five* dots.

At the other end it has five dots.

How many has it at both ends?

Then Jack takes one that has ten less than twelve dots at one end.   It has nine less than twelve dots at the other end.

How many has it at both ends?

Robert's next domino has one-third of nine dots on each end.

How many has it on both ends?

Jack's fourth domino has one-fourth of twelve dots at one end, and none at the other.

How many has it in all?

Robert takes another. It has, at one end, one-eighth of eight dots.

At the other it has *twelve less twelve* dots.

How many dots has it in all?

Jack's next one has eight less than twelve dots, or ____ dots in all.

Robert's fifth domino has three less than twelve dots in all.

On one end it has one-half of ten dots.

How many dots are on the other end?

CHAPTER X. [W. and R., 28.

KATE AND HER GRANDMAMMA.

Kate has picked ten daisies to-day.

This is two times as many as she picked yesterday.

How many did she pick yesterday?

One day, Kate helped grandmamma's maid put away the teacups.

There were twelve cups. Kate took two each time she went across the room.

How many times must she go for the cups?

The maid could take three cups, so she would have had to go across the room   times to put away twelve cups.

One day, grandmamma put them away.

She carried four at a time, so she crossed the room only   times.

Six of the cups were put on the shelf in two even piles.

How many were in each pile?

Ten saucers were put in two even piles.

How many saucers were there in each pile?

Kate's grandmamma gave eight apples to four girls.

How many did each girl have?

The same day she gave ten apples to five boys.

How many did each boy have?

Kate and her grandmamma went in the cars.

Grandmamma rode six hours, which was three times as long as Kate rode.

How long did Kate ride?

Six hours have two times as many minutes as   hours have.

There were two carriages just alike.
Eight people went to drive in them.
How many went in each carriage ?
Four people went to drive in two carriages.
How many went in each carriage ?

Twelve pennies were put in three even piles.
How many were in each pile ?
Twelve pennies were put on the table.
They were in piles of four.   How many piles
were there ?

Nine pennies can buy three times as many
sheets of paper as   pennies.

Eight pennies can buy two times as many
stamps as   pennies.

How many pennies will you give me for a
ten-cent piece and a two-cent piece ?

> Seven snowy lilies
>   Nodding on the stem ;
> Seven little maidens
>   Came to look at them.
> Each maid plucked a lily
>   Sweet and white as she ;
> Is there left a lily
>   On the stem for me ?

CHAPTER XI.   [W. and R., 29.

Alice has twelve pieces of mica.

How many may she give away and yet keep eight?

If she gives away one-third, how many does she give away?

One half of her pieces are white mica.

How many pieces of white mica has she?

Amy has ten minerals

How many more must she have to have twelve?

One-half of Amy's minerals are graphite.

How many bits of graphite has she?

Robert has only eight minerals.

He must find   more, that he may have twelve.

One-half of his eight minerals are quartz.

One-fourth are mica.

One-eighth are graphite.

Hattie has her specimens on three shelves.

On one shelf there are twelve minerals.

Four are quartz.

The other   are mica.

How many minerals must she take away to leave only four on that shelf?

On the next shelf she has twelve pieces.

Nine are pudding-stone and   are trap.

One-third of the bits of pudding-stone have round pebbles in them.

How many have round pebbles?

On the third shelf she has nine pieces less than on the first shelf.

She has three pieces of quartz. She wishes to have twelve.

How many more must she have?

Hattie would like one-fourth of twelve pieces of rose-quartz.

How many bits of rose-quartz does she want?

Hattie had twelve pieces of slate.

All but three she found herself.

How many did she find?

Twelve plums were in a dish.

Robin Redbreast came in at the open window and took a bite out of eight of them.

How many did he not taste?

Robert had six oranges.

He gave one-half of them to Alice.

How many did he give her?

In one of them she found *twelve less ten* seeds.

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CHAPTER XII.   [W. and R., 30.

If six boys jump into the fresh snow, how many footprints will there be?

If five boys hold up both hands, how many hands may I see?

How many feet have two kittens?

Flora's cat has three kittens.

When the cat-mamma calls, how many little feet come running to her?

A little girl has six shells and six shells.

How many shells has she?

She had eight shells in one hand, and four in the other.

How many shells has she?

Now she has nine shells in her right hand, and three in her left hand.

How many has she in both?

Margaret has seven pebbles in her left hand, and five in her right hand.

How many pebbles has she?

Esther had six daisies in each hand.

How many had she in both?

She gave three to Flora, three to Fannie, three to Bob, and three to Tom.

How many did she give away?

How many had she left?

Tom walks four miles to school and four miles home again.

How many miles does he walk each day?

One day, Tom's father walked seven miles.

The next day he walked four miles.

How many miles did he walk in the two days?

Tom walked seven miles to his grandmother's house, and seven miles more to his aunt Kate's.

How far did he walk?

I have two five-cent pieces.

How many cents have I?

Two half-dimes are the same as   cents.

If I spend six cents for a rose and four cents for a pink, how many cents do I spend?

How many dimes have I spent?

If I have a dime, and spend eight cents and two cents, how much shall I have left ?

If I buy four sponges at two cents each, how much shall I pay ?

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CHAPTER XIII.   [W. and R., 31.

MARY AND HER DOVES.

Mary was calling at the door for her doves.

At first she could see only one dove.

" Oh, mamma, I can see only one dove."

Mary's mamma came and stood beside her.

" I can see twice as many as you, dear," she said.   " Call to them, Mary."

So Mary made a soft, cooing sound.

In a moment the doves came flying toward her.

" Oh, now I can see two times three doves. No, three times three doves."

But mamma said, " I can see four times three doves."

" Now, dovies," said Mary, " I have my lessons before dinner, so you shall have your lesson before your dinner."

The doves said, "Coo, coo."

Mary said, "When I look at one dove I see two wings.

Tell me how many wings I see when I look at four doves."

And the doves said, "Coo." ·

"How many wings have five doves? How many wings have six doves?"

And the doves said only, "Coo."

"Each of you looks at me with two little, bright eyes.

If only six of you are here, how many eyes look at me?

How many eyes have four doves?

How many eyes have three doves?"

And the doves said, "Coo."

"Now, dovies, I have asked you three times two questions.

Next time, I shall ask you three times three questions, or, perhaps, two times six, or four times three questions.

You have been good doves.

Here is your dinner."

After six times two doves had eaten the corn, twelve times one dove flew away.

There were twelve times no doves left.
" Say, ' Thank you,' dovies," said Mary.
But the echo said only, " Coo."

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CHAPTER XIV.

Twelve pennies bright a dozen make ;
Count half a dozen when six you take.

There are half a dozen pennies on my table.
How many pennies are there ?
If I spend each one for a postal card, how
many postal cards shall I have ?
I had a dozen pennies, but I spent six, so I
have only   left.
I had six times two pennies.
I spent four times three pennies, and I had
      left.
I have five pennies in my purse and one-third
of a dozen in my bag.
How many have I in all?
Twelve pennies were in my purse this morning.
Before *five times two* o'clock I had spent one
more than half a dozen.

How many had I spent before   o'clock?

How many pennies had I left?

Tom had eight cents and earned three more.

How many cents had he then?

I bought, one day, three lemons for four cents each.

How much did I pay?

Last Friday, lemons cost six cents each, and I bought only two, yet they cost   cents.

      people make half a dozen.

One-third of a dozen boys drank four gills of milk.

Each drank one gill.

How many boys drank the milk?

The glasses were one-fourth of a foot tall.

How many inches tall were they?

My desk is one foot and one dozen inches long.

How many feet long is it?

Tom's pencil is one-third of a foot long.

Kate's is one-fourth of a foot long.

How many inches long is Tom's?

How many inches long is Kate's?

Mine is one-third of a dozen inches long, just as long as   .

A one-foot rule is   inches long.

CHAPTER XV.

MRS. WHITE'S FAMILY.

Mrs. White's family used seven pounds of coffee in May, and six pounds in June.

How many pounds did they use in the two months?

The first of June, Mrs. White paid for ten pounds of the coffee.

How many pounds has she yet to pay for?

She bought ten pounds of a grocer in Boston,` and three pounds of a grocer in Roxbury.

How many pounds did she buy in all?

In May and June, her family used four pounds less of tea than of coffee.

They used thirteen pounds of coffee.

How many pounds of tea did they use?

Mrs. White's family have breakfast half an hour after *thirteen less six* o'clock.

At what time do they have breakfast?

One morning the maid laid thirteen times one plate for breakfast; but as there were to be only *thirteen less two* people, she had to take two away.

The cook gave her two plates of rolls.

On one there were three less than thirteen rolls.

On the other there were five more than eight rolls.

How many rolls were on each plate ?

Mrs. White poured *thirteen less five* cups of coffee for the grown people at the table.

How many cups of coffee did she pour ?

How many grown people were there ?

There were eleven people at the table.

How many children were there ?

Mrs. White gave a glass of milk to each of the   children.

The children's school begins at *thirteen less four* o'clock.

It takes them two more than thirteen minutes to walk to school.

Bob White is seven years old.   How old will he be in six years ?

Elsie is five.   How old will she be in eight years ?

She goes to the Kindergarten, and comes home at *thirteen less one* o'clock.

Elsie has eight less than thirteen kittens.

There were *thirteen less seven,* but she gave one to the cook's little sister.

Cook feeds the kittens with milk.

———◆———

CHAPTER XVI.   [W. and R., 35.

I wish that the years ran as swift as the
    brooklet,
  That Maydays were near as the banks its
    waves kiss;
That I might grow up like the sweet, snowy
    lily,
  And gay little breezes would tell me their
    bliss.

Then I should know where the white clouds are
    sailing,
  What robin and thrush sing in their matin
    psalm,
What dreams in the night-time come to the
    daisies,
  When their white curtains shield them from
    harm.

The girl who says this is seven times two years old. How old is she?

She is ten and four years old.

How many years is it since she was seven times one year old?

How many times seven years has she lived?

How old was she ten years ago?

How many years must she live before she is fourteen years old?

I am ___ years old; she is ___ years older than I am.

If I am four years less than fourteen years old, how old am I?

When I am ten years old, in how many years shall I be fourteen?

My sister was four years old when Jack was born.

He is ten years old now, and she is ___ years old.

Mollie's birthday is ten days after the third of April.

What day of the month is it?

Ada's birthday is eight days before the tenth of June.

What is the date of her birthday?

Who can tell what holiday comes nine days
before the thirteenth of July ?

Fourteen is just seven times two, —
Years or dolls, it's just as true.
How many, tell me, Bess, have you ?
Of years I've ten, or   times two.
I am twice as old as Lou.
I've dolls a dozen, six times   ,
And I have some kittens too,
Six gray beauties,   times two.

<hr />

CHAPTER XVII.

Saint Valentine's Day is twelve days after the
second day of February.

What day of the month is it ?

The Fourth of July is ten days before the
of July.

Every fourth year our country chooses a Presi-
dent.

He is made President ten days before the
fourteenth of March.

On what day do we have a new President?

There are two less than fourteen months in the year.

We call spring, summer, autumn, and winter the seasons.

There are three months in each of the four seasons.

How many months are there in the year?

Richard has lived five more than nine years. How old is he?

His birthday is nine days before the fourteenth of September.

If Amy takes a music lesson every two days, how many lessons does she take in fourteen days?

I have a dozen pennies to spend for two-cent stamps.

How many can I buy?

How many can I buy for eight cents?

I have a ten-cent piece.

I want to change it for two pieces of money.

What will each piece be?

If I ask Charlie to change for me a ten-cent piece, and he gives me five-cent pieces, how many must he give me?

Aunt Helen wants to give half a dozen bright balls to two babies.

How many balls will each have?

Four of the balls are red, so she gives red balls to each of the two babies.

Two stones grow in two peaches.

How many stones grow in one peach?

I see six blue eyes.   They belong to children.

I see three curly heads with   warm hoods to cover them.

CHAPTER XVIII.   [W. and R., 38, 39.

THE TWINS' BIRTHDAY.

Marion is two times four, and six years old.

Her twin brother John is two times three, and eight years old.

Her birthday is three times two days after the eighth of June.

His birthday is four times two days after the sixth of June.

They had a birthday party.   What day of the month was it?

On that day they took roses to the Flower Mission.

Marion had three times three bunches, and five bunches to carry.

John had two times five bunches, and four bunches.

Marion carried two baskets.

She had as many bunches in one as in the other.

How many did she have in each basket?

John carried nine in a basket, and the rest in his hand.

He had fourteen bunches.

How many did he carry in his hand?

When Marion made the bunches of roses, she used fourteen white roses in seven bunches.

How many white roses had she in each bunch?

She used twelve yellow roses in six bunches.

How many did she have in each bunch?

She made two bunches with twelve pink rosebuds.

How many rosebuds did she have in each bunch?

At the party John wished to give ten roses to five little girls.

How many could he give to each?

Six more than eight times one boy came to the party.

Six times one girl came before six o'clock.

Eight girls came after six o'clock.

How many girls came to the birthday party? They played a game.

Twelve girls stood in rows, with three in each row.

How many rows were there?

If the twelve girls stand in four rows, how many will there be in each row?

Twelve children walked two by two. How many pairs were there?

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CHAPTER XIX.   [W. and R., 40.

MY LITTLE SISTER.

My little sister is a year old.

How many months has she lived?

When she was half a year old, she began to creep.

How many months old was she then?

When she was a third of a year old, mamma had her picture taken.

How many months old was she when her picture was taken?

How many months old was she when she had lived a fourth of a year?

How old was she when she had lived a dozen months?

We had a pretty moth at school for seven days.

How many weeks was he there?

His whole life was fourteen days long.

He lived   weeks, or a fortnight.

May's lily is a foot high.

How many inches is it?

When it was half a foot high, it measured   inches.

My pencil is one-third of a foot long, and it is just   inches.

Emily's pencil has been used more than mine, and hers is only one-fourth of a foot long.

How many inches long is hers?

Nora drank four gills of milk.

How many pints did she drink?

It was poured out of a pitcher which holds two pints.

How many quarts does the pitcher hold?

How many eggs are there in a dozen?

How many are four less than a dozen buttons?

How many are a dozen and a half pencils?

A dozen fat turkeys are strutting around,
Picking sweet kernels of corn from the ground.
" Gobble, gobble," they're saying, with such a
  sad cry;
" Gobble, gobble," they're scolding, — and then
  a loud sigh.
" A dozen fat turkeys on Thanksgiving Day
Will be roasted for dinner," — that's what they
  say.

———◆———

CHAPTER XX. [W. and R., 41, 42, 43.

A boy has six marbles in a red bag, which is half as many as he has in a blue bag.

How many has he in the blue bag?

Mark had nine marbles. One-third of them were agates.

How many agates had he ?

One-third of a class of children have brown eyes ; the rest have blue eyes.

There are twelve children in the class.

How many have blue eyes ?

Monday, Tom earned one-fourth of twelve cents.

. Tuesday he earned one-third of nine cents.

How much did he earn each day ?

He spent one-fourth of eight cents, and put one-third of twelve cents into his bank.

At twelve cents each, how many papers of tacks can one buy for twelve cents ?

How many two-cent stamps can I buy with twelve cents ?

I bought a postal card for one-eighth of eight cents.

What did it cost ?

Harry bought a stamp for five cents. He spent just half his money.

How much money had he ?

How many three-cent yeast cakes can I buy for twelve cents ?

There are twelve months in the year.

In each season there are three months.　How many seasons are there?

They are called spring,　　　　　,　　　　　, and　　　　.

If the doctor is paid at the end of each three months, how many times each year is he paid?

Anna's piano is tuned once in two months.

How many times is it tuned during the year?

Alice is one-half of fourteen months old. How old is she?

Anna had six letters Tuesday, and half as many Wednesday.

How many did she have in the two days?

One-half of fourteen days is a　　　　.

There are one-half of twelve, or　　　　, working days in the week.

CHAPTER XXI. [W. and R., 44.

Five days after the tenth of October, five less than fifteen boys went nutting.

They walked *fifteen less ten* miles.

They were gone *fifteen less twelve* hours.

It was *fifteen less three* o'clock when they started.

They found plenty of nuts.

They gathered eleven quarts of walnuts in one place, and four quarts in another.

They divided the fifteen quarts of walnuts equally among five boys.

How many quarts did each have?

They gathered three times five quarts of beechnuts.

How many quarts did they have?

These were divided equally among three boys.

How many did each boy have?

If they had found one more pint of chestnuts, they would have found fifteen pints.

How many pints did they find?

How many quarts did they find?

Tom had never seen beechnuts before.

It pleased him to see that each nut had *fifteen divided by five* sides, or   sides.

How many sides could Tom have found in five beechnuts?

As they went on, Tom saw some bright red leaves.

He began to pick them.

"Look out!" said Harry; "that is poison ivy."

"Oh, no," said Fred, "for, see, this plant has five little leaflets, and the poison ivy has only three.   This is woodbine."

How many leaflets has the woodbine?

Frank picked golden-rod on the way home.

He wanted to carry home fifteen sprays.

The first time he counted he had thirteen.

How many more had he to gather?

The boys found one-third of fifteen kinds of flowers.

They knew the names of twelve less than fifteen of the flowers.

CHAPTER XXII. [W. and R., 45.

Grace drew upon the blackboard a line twelve inches long.

Then she made it three inches longer.

How long was it then?

She drew a line beside it thirteen inches long.

Then she added two inches to it.

How long was the line?

She erased the first line, little by little, until it was only six inches long.

How many inches did she erase?

The second line was fifteen inches long.

She erased this until it was only nine inches long.

How many inches did she erase?

Grace drew fifteen short vertical lines in groups of three.

How many groups did she have?

Next she drew fifteen lines in groups of five.

How many groups had she?

Then she drew fifteen slanting lines in three groups.

How many lines were there in each group?

Grace is going to make fourteen vertical lines, each one inch longer than one foot.

She has drawn eight.   How many has she yet to draw ?

How many inches long is each line ?

She drew fifteen little squares in five groups.

How many did she draw in each group ?

Mabel has been working with splints at the table.

She has made triangles.   She used three splints for each triangle.

How many would she use for five triangles ?

How many triangles could she make with fifteen splints ?

Mabel is going to use only ten splints, and she has fifteen on her table.

How many may she put away ?

Six of the fifteen splints are red, and the other   are white.

The splints are nine inches less than fifteen inches long.

Miss Ray gave each child in a class a handful of splints.

They tied them in bundles of ten.

The children called each bundle a " Ten."

Cora had one Ten, and five splints.

Amy had one Ten, and four splints.

Harry has one less than fifteen splints.

He uses nine of them to make   triangles.

How many has he left ?

CHAPTER XXIII. [W. and R., 48, 49.

Bertha counted twelve snowflakes on her muff.

They fell in three even little groups.

How many flakes were in each group ?

Each snow crystal has six points.

How many points are there in two snow crystals ?

Bertha found a dozen water-flowers in the melting ice.

This is twice as many as Emil found. How many did Emil see ?

How many less than Bertha did he see ?

Each water-flower has six petals.

How many petals have two water-flowers ?

Kate counts twelve dainty blue petals on three innocents.

How many petals has each blossom ?

Esther wishes to divide eight pansies among eight girls.

How many will each have ?

She has three more than a dozen petals.

They belong to three pansies. How many petals belong to each pansy ?

The violet has five petals. How many petals have three violets ?

Fifteen petals belong to   violets.

An apple-blossom has five petals.

How many petals have two apple-blossoms ?

Fourteen leaflets are   pairs of leaflets.

The cup of the lily-of-the-valley has six tiny points. How many flowers must I have to count twelve points ?

Please, Mr. Gardener, send to-day
A big bunch of flowers gay.
Half a dozen roses pink —
Let me stop a bit and think.
My mamma likes roses red ;
A whole dozen, sure, she said.

Three times three of roses white;
Now I'm sure the order's right.
And don't you think, perhaps, there'll be
Just a little bud for me?

CHAPTER XXIV. [W. and R., 50.

There are four quarts in a gallon.

Mr. Drake sold one-half of four quarts, or half
a   , of milk.

How many quarts did he sell?

How many pints is that?

At a Christmas party there was one-third of
twelve quarts of ice cream eaten.

How many quarts of cream were eaten?

What other name have we for four quarts?

Tuesday morning our milkman brought twelve
quarts, or   gallons, of milk from Milton.

He charges one-third of twelve cents for each
pint.   What does a pint cost?

How much does he charge for a quart?

Cook needed one-third of a pint of milk to
make some cake.

She went to the milkpan, and there was none.

If she uses a third of what she found, how much milk did she put into the cake?

Puss has had no milk since morning.

Each of her kittens has had one-eighth as much.

How much milk has each kitten had?

Our family uses one-third of twelve quarts every day.

How many quarts do we use?

How many pints do we use?

We have four quarts every day.

The milkman brings half at night and half in the morning.

How many quarts does he bring at night?

What part of a gallon does he bring in the morning?

Nannie puts half a gallon of milk into a two-quart pan. How nearly full is the pan?

I heard the cook say that there was a gallon jug of vinegar in the storeroom.

I asked her how many quarts it held. She let me measure it.

I found that it held   quarts.

CHAPTER XXV. [W. and R., 52, 53.

In a class of sixteen children, thirteen have
blue eyes.

The other   have brown eyes.

Five of the class are boys.   There are
girls in the class.

Twelve of the sixteen children are always
busy, but the other   are often idle.

One day all but fifteen children were absent.
How many were absent ?

          children came to school.

There are only eight pencils for the class.

They need sixteen.   How many more must
there be ?

The sixteen children were playing ball at
recess.

Seven wore hoods.   The rest wore hats.   How
many wore hats ?

One of the boys had four snail-shells.

He wants to give one to each child in the
class, and keep one for himself.

How many must he have ?

MARIE AND FRED.

When Marie was fifteen years old, her brother Fred was ten years old.

How much younger is Fred than Marie?

Fred has made a boat. It took him fourteen hours to make it.

If he had worked two hours each day, how many days would it have taken him to make the boat?

If he had worked seven hours each day, he could have made the boat in   days.

Marie found sixteen seeds in two oranges.

In one she found six seeds and in the other she found   seeds.

Fred found sixteen seeds in two apples.

In one there were eleven seeds and in the other   .

Sixteen sparrows sat on a tree.

One after another flew away, until there were only six left.

How many flew away?

Harry has sixteen shells. He knows the names of nine.

How many of his shells has he yet to learn about?

There were fourteen horses for sale at a cattle-show.

All but eight were sold. How many horses were sold?

Two times seven days before the fifteenth of May is the   day of May.

October is   months before the twelfth month of the year.

> " One, two, buckle my shoe;
>   Three, four, shut the door;
>   Five, six, pick up sticks;
>   Seven, eight, lay them straight;
>   Nine, ten, a good fat hen."

CHAPTER XXVI. [W. and R., 54, 55.

TOM'S BOOK.

Tom is reading a book of sixteen pages.

If he reads two pages a day, how many days will it take him to read the book?

Suppose he reads four pages each day, in how many days will he read the book?

If Tom reads four pages by himself and four more pages to his mamma, he will read pages each day.

He will finish the book in days.

How many pages are there in half of Tom's book?

When he has read one-fourth of the book, how many pages has he read?

One-eighth of the sixteen pages have pictures.

How many pages have pictures?

Tom bought the book with his own money.

It cost four times four cents.

Tom gave the bookseller three five-cent pieces.

" That is not enough," said the man. " You must give me   more."

Tom had four silver three-cent pieces.

His sister wanted them, so she offered him two five-cent pieces and a two-cent piece for them.

Tom was willing to change. Should you have been ?

I had in my hand this morning, one-fourth of twelve cents. I had only two pieces of money.

One was a penny, and the other was a piece.

I have one-half of sixteen cents in three pieces of money.

One is a ten-cent piece. What may the other two be ?

I have one-third of fifteen cents in two pieces of money. What must they be ?

I have one-eighth of sixteen cents in one piece of money ? What is it ?

The *Advertiser* costs four cents.

How many mornings can Mr. Dean buy his paper and yet spend only twelve cents ?

I have twelve cents in four equal pieces.

What is each piece worth?

How many pennies will you give me for two of the pieces?

I have fifteen cents in five equal pieces.

How many pennies will you give me for each piece?

CHAPTER XXVII.   [W. and R., 56.

The *St. Nicholas* comes once a month.

How many times in the year does it come?

Helen was ill. She had to take medicine every two hours.

How many times did she have to take it in twelve hours?

Mr. Grant pays his gas bill once in three months.

How many times a year does he pay it?

Mr. Dee pays his bill every month.

How many times a year does he pay it?

The tall clock in our hall is wound once a week.

How many times is it wound in a month?

How many breakfasts do we have in two weeks?

Mrs. Chase's family use a dozen eggs every day.

How many dozen do they use during the week?

Mrs. Martin orders two quarts of milk a day.

How many quarts are sent to her in two days?

How many gallons does she have in two days?

How many days does it take her family to use two gallons?

If they use four gills of cream at breakfast, for the oatmeal and the coffee, how many pints do they use?

If they use just as much every morning, in how many mornings will they use a quart of cream?

If our ink-wells are filled once a week, how many times are they filled in three months?

They are filled _____ times in four months.

If a gallon of ink lasts eight months, how long will a quart last?

How many weeks will a pint last?

Bertha's table is three feet, or   inches, long.

It is twelve inches more than one foot high. How high is it?

How many twelve-inch rulers can be made from a yard-stick?

How many foot rulers can be cut from a lath eight feet long?

How many yard-sticks can be cut from a lath twelve feet long?

CHAPTER XXVIII.   [W. and R., 59.

Karl wishes to measure off sixteen inches of wood.

He has measured two inches eight times.

How many more inches has he to measure?

Blair is going to make sixteen rulers.

He has made two times seven rulers.

How many more has he to make?

William has to drive fourteen nails into a box.

He has driven three times four nails.

How many has he yet to drive?

Pauline is at work upon a seam sixteen inches long.

She has sewed five times three inches. How many more inches has she to sew?

Yesterday Mr. Walker had sixteen dollars.

He had a ten-dollar bill and   dollars in small bills.

With the sixteen dollars he paid two bills of eight dollars each. How much did he have left?

I have sixteen cents in four pieces of money.

Three are five-cent pieces, and the other is   .

Mr. Haven hired a house for twelve months.

His family have lived there already seven months.

How many more months may they live in the house?

Ethel is fourteen years old, and Gertrude is six.

Gertrude is   years younger than Ethel.

Ethel is.   years more than twice as old as Gertrude.

Baby is fourteen months old.

He has lived two more than four times three months.

Carrie is thirteen years old. How old was she eight years ago?

WHAT WOULD YOU DO WITH IT?

Auntie Alice said, "I will give to each of you fifteen cents, if you can tell me quickly how you can spend it."

Helen said, "I can buy seven two-cent stamps, and have   left to spend for a postal card."

"And I," said Ben, "can buy the *Advertiser* for papa three mornings, and have three cents left for marbles."

"How much does the *Advertiser* cost, Ben?" asked Helen.

"It costs   cents," said Ben.

Margaret said, "I can buy two handkerchiefs for my doll. They cost six cents apiece, so I shall have three cents left."

Fred had his bag of marbles in his hand, and he said, "Auntie Alice, if I have fifteen

cents I can buy an agate for eight cents, and
yet have   cents, almost enough to buy
another."

Will, who rides in the street-cars to school,
said, "I can buy a nine-cent check, and have
            cents left."

Alla said she could buy a spool of sewing silk
for ten cents and a spool of button-hole twist
for   cents.

Edith said she should put one penny into her
bank each day for two weeks, and then she
would spend the other penny for candy for
Auntie Alice.

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CHAPTER XXIX. [W. and R., 60-62.

The night before Christmas, Richard slept only
seven hours.

Christmas night he slept ten hours. How
many hours did he sleep both nights?

Philip made seventeen snowballs, and Richard
made nine. How many more did Philip make
than Richard?

Richard is nine years old.   How many years will it be before he is seventeen?

Philip is eight years old.   How old will he be when he has lived nine years more?

He has a baby sister a year old.   How many years must she live before she is seventeen years old?

Her birthday is eight days before the seventeenth of April.   What day is it?

Philip's birthday is the seventeenth of August.

Richard's is four days earlier.   What day is Richard's?

The battle of Bunker Hill was seven days after the tenth of June, 1775.   What day was the battle?

SUNSET LAKE.

There are seventeen islands in Sunset Lake.

All but five have trees on them.   On how many islands are there trees?

There are houses on six of the islands.   How many have no houses?

A little steamer stops at four of the islands, but does not stop at the other   islands.

One day, the steamer had on board *seventeen times one* persons.

At the first landing two persons got off. How many were left?

Last Tuesday, no person left the steamer at the second landing.

If the same number leave at that landing each day for seventeen days, how many persons will have stopped there?

On one of the islands there are eleven sheep, and five less than that number of lambs. How many lambs are there?

How many sheep and lambs are there in all?

On another island a milkman has a drove of seventeen cows.

He has had fourteen. Yesterday he bought more.

The three new cows and two of the others are Jerseys.

The rest are native cows. How many Jerseys has he?

How many native cows has he?

CHAPTER XXX.   [W. and R., 64.

Fourteen days are two weeks, or a fortnight.

How many days are there in one week?

Mabel has gone away for a visit.

She expects to stay one-half of twelve months, or half a   .

Robert was in Europe one-fourth of twelve months.

The nasturtium lives out of doors about one-half of ten months.

When the baby takes his morning nap, he sleeps one-sixth of six hours.

His afternoon nap is one-third of three hours. Which nap is longer?

Each of Robert's boots has one-half of sixteen buttons.   How many buttons have both boots?

Marie's gloves have each one-third of twelve buttons.   How many buttons has each glove?

How many buttons have both gloves?

Carrie found sixteen shells on the beach.

One-fourth of them were mussel shells.   How many mussel shells did she find?

There were fourteen rosebushes in a garden. Half of them were moss-roses.

How many moss-rosebushes were there in that garden?

Eight frogs were sitting on a log, when one-eighth of them jumped into the water. How many went into the water?

HUNTING FOR EGGS.

Last Tuesday, when both hands of the clock pointed to twelve, one-third of six little girls went to the barn to hunt for eggs.

Charlotte took one-fourth of four baskets.

Nelly took one-fourth of eight baskets.

Charlotte found one-third of fifteen eggs. How many did she find?

Nelly found so many that she put one-third of nine eggs and one-half of six eggs into her red basket.

Into her white basket she put one-eighth of sixteen eggs.

How many eggs did Nelly have in the red basket?

How many did she have in the other basket?

She found   eggs last Tuesday.

CHAPTER XXXI.   [W. and R., 65.

There are two rows of maple-trees on the Common, nine trees in each row.

How many trees are there in both rows?

There were seventeen shade trees around a lawn.

Twelve were elms.   The other   were spruces.

I want sixteen cotton seeds to plant.

I have only eight.   How many more must I have?

In two pods Mabel found sixteen peas.   In one there were seven.   In the other there were

Seventeen butterflies were in a garden.

Eight alighted upon the lilies.   The other flew about in the sunshine.

If our schoolroom is fifteen feet wide, how many yards wide is it?

There are sixteen plants at the west window.

Ten are geraniums and   are ivies.

There are eighteen plants at the south window.

One sunny day ten were in blossom.

How many have only green leaves?

Nine of the plants are primroses and the other are pinks.

Yesterday Emily learned to spell ten words.

To-day she has learned to spell eight words.

How many has she learned in the two days?

She wrote all the words on the blackboard.

Now she has rubbed out eight, and there are only   left.

Will saw seventeen horses pass the house at recess.

Five were going up the street, and   were going down.

Eight of them were white and the other were bay horses.

Fourteen days are   weeks.

How many weeks are there in ten less than seventeen days?

Eighteen hands belong to how many clocks?

Sixteen eyes belong to how many children?

Sixteen paws belong to how many cats?

How many starfishes do fifteen arms belong to, if each starfish has five arms?

CHAPTER XXXII. [W. and R., 66, 67, 68.

AT THE BLACKBOARD.

Kate has made nine pairs of parallel lines. How many lines has she made ?

One-third of these lines she made with green crayon and the rest with white.

How many lines of each color did she make ?

She has used eighteen lines in making triangles. How many triangles has she made ?

She made fifteen circles before recess, and she has made three since recess. How many has she made in all ?

She has made two times   , or eighteen, circles.

Twelve are large and   are small.

She made three times five with orange crayon.

She made eighteen less fifteen with blue crayon.

In two times eight circles, she marked the centres with white dots.

In three times four circles she drew
red squares.

In twelve less than eighteen circles she drew
clock-faces.

In one-sixth of eighteen circles she drew the
diameters.

Charlie made nine red circles, which was half
the number Kate made.

Will made three blue circles, which was one-
as many circles as Charlie made.

Charlie drew a red line six inches long.

It was one-third as long as a blue line he had
drawn. How long was the blue line?

Kate has a blue pencil two inches long.

Her pencil is one-fourth as long as Will's.
How long is his?

She has a red pencil two inches long, which is
one-third as long as Charlie's.

How long is Charlie's red pencil?

FINGERS AND THUMBS.

Her hands were spread before her,
    She was looking very wise;
For there was a little wrinkle
    Between her round blue eyes.

And I heard her softly saying,
  "I don't see how they *can*,
If mamma *is* a lady,
  And papa a gentleman!

"But grandma joins in with them;
  And though she's never told,
I should think she was three hundred —
  And may be more years old!

"Now, every single one of them —
  And, surely, each one knows! —
Says: 'Yes, you have ten fingers,'
  And, 'Yes, you have ten toes.'

"The toes come right, — I've counted, —
  But when the fingers come,
On each hand are four fingers —
  Four fingers and a thumb!

"Two fours are eight, — I've counted:
  It isn't one bit more!
And my thumbs are not my fingers,
  And one from five leaves four!

"And I don't see why they say it,
    Nor how they make it come,
For a thumb is not a finger
    If a finger's not a thumb."

MRS. MARGARET VANDEGRIFT,

in *St. Nicholas.*

CHAPTER XXXIII.   [W. and R., 67.

MR. MARSH'S GROCERY STORE.

Mr. Marsh has a grocery store on South Street.

He has had the store one-half of sixteen years.

One-half of eighteen barrels stand outside the door.

One-third of eighteen barrels are full of apples.

One-sixth of eighteen barrels are full of potatoes.

Are there more barrels of apples or of potatoes?

The store has three doors, which is half as many as it has windows. How many windows are there?

There are one-fourth of twelve signs.

Mr. Marsh sold half a dozen eggs for nine cents.   How many eggs did he sell ?

Nine cents is just half what a dozen would have cost.   What was the price of a dozen eggs ?

Mr. Marsh sells a quart of milk for eight cents.

This is half the price of two quarts.   How much do two quarts cost ?

What is the price of half a gallon ?

Mr. Marsh has sold four barrels of flour to-day.

This is one-third as many barrels as he sold last week.

He has sold two boxes of starch to-day.

This is one-eighth as many as there were in the store this morning.   How many boxes did he have this morning ?

Mr. Marsh has filled a box one-third full of sugar.   He has put in four pounds.   How many pounds does it hold ?

One-third of all the wagons he has are standing at the door of the store.

There are two wagons.   How many does he own ?

There are four horses in front of his store. They are with the wagons.

These are one-half of all Mr. Marsh's horses. How many has he?

One wagon has in it seven baskets.

This is half as many as it will have when it is ready to go. How many will it have then?

The other wagon has six baskets in it.

This is only one-third as many as it will have when it goes.

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CHAPTER XXXIV. [W. and R., 70, 72.

MR. MARSH'S GROCERY STORE.—*Continued.*

Yesterday there were nineteen brooms for sale at Mr. Marsh's store.

To-day there are only fourteen. How many are already sold?

Mr. Marsh sells honey. There is one pound in each box.

How many pounds are there in eighteen boxes?

Yesterday morning he had eighteen boxes.

He sold honey to four people.

Each one took four boxes. How many boxes did he sell? How many boxes has he left?

Mr. Marsh sent Mrs. Train fifteen pounds of sugar. This was three times as much as she had ordered.

How many pounds did she order?

Mr. Marsh is packing eggs in little boxes.

He puts six in a box. How many boxes will he need for a dozen eggs?

Eighteen eggs will fill   boxes.

There are eighteen glasses of jelly on a shelf.

They stand in three even rows. How many glasses are there in each row?

There are two kinds of jelly, — grape and currant.

There are as many glasses of currant as of grape.

There are   glasses of each kind.

Mrs. Train has ordered a dozen glasses of jelly. How many will be left on the shelf when those are taken away?

She wishes nine glasses of currant jelly. The rest of the dozen will be grape.

How many glasses of grape jelly will be sent to Mrs. Train?

CHAPTER XXXV. [W. and R., 74-79.

There are one hundred and thirty lines in the poem of " Paul Revere."

If the first one hundred lines are printed on one page, ____ lines must be printed on the next page.

Anna is learning a poem of eighty lines.

She has already learned thirty lines. She has ____ yet to learn.

Alice is reading a book. She has read ten pages.

She has three times twenty more pages to read.

How many pages has she to read? How many pages has the book?

Mr. Lee has come from Pittsburg. That is about seven hundred miles from Boston.

He was asleep during three hundred miles of the ride. How many miles did he travel while awake?

It is about three hundred miles from New York to Cincinnati.

When I have been over the road three times, how many miles have I travelled?

The track from Boston to Lynn is ten miles long.

If an engine run over the track ten times each day, how many miles does it travel in a day?

How many miles does it travel during the six week days?

From Boston to Concord is twenty miles.

How many miles is it from Boston to Concord and back to Boston again?

If I go three times as far as from Boston to Concord, how many miles do I travel?

If I go from Boston to Concord, and then half way back to Boston again, how many miles shall I travel?

Waltham is ten miles from Boston.

Mark lives there, and comes to Boston in the cars to school.

How many miles does he travel each day?

How many miles does he travel in the five school days of each week?

A certain railway is forty miles long.

The stations are four miles apart.   How many stations are there?

From Boston to Dedham is ten miles.

On Saturday, the engine " Dart " ran one hundred miles between the two places.

How many times did it go over the road ?

On the first trip it drew no cars.

On the next trip it had ten times as many.

How many cars did " Dart " draw on its second trip ?

A ten-ride ticket from Boston to Malden costs eighty cents.

What is one ride worth ?

A ten-ride ticket between Boston and Hyde Park costs one dollar.

One ride costs   cents.

CHAPTER XXXVI. [W. and R., 80–82.

MR. OLIVER'S JOURNEY.

Mr. Oliver was going on a journey.

He has ten less than sixteen children.

They all went to the station with him.

The train was to start four hours before fourteen o'clock.

The Oliver family ate breakfast ten hours
before seventeen o'clock.

How many hours before the train started did
they eat breakfast ?

He had ten packages, bags, and trunks, be-
sides two canes.   How many things did he have
to take care of ?

He was going ninety-seven miles on the main
road, and ten miles on a branch road, or
miles in all.

His ticket cost three times one hundred cents,
or   hundred cents, or   dollars.

Mr. Oliver paid seventy and five cents to the
expressman for taking his trunks to the station.

How much did he pay the expressman ?

A cab for Mr. Oliver cost ten cents less than
thirty-five cents.

How much did the cab cost?

At the station he gave his son Ned forty-five
cents to buy newspapers.

Ned spent ten cents for the papers, and gave
back   cents to his father.

Mr. Oliver took out a bright penny for baby
Ellen, and gave the rest to Ned again.

How much did he give to Ned ?

He told him to buy two two-cent stamps and bring back the change.

Ned brought back thirty cents.

How much did he pay for the stamps?

Mr. Oliver and the children were at the station at twenty-seven minutes after nine.

Ten minutes later Mr. Oliver got into the car.

There were thirty people there.

Before the train started seven more came in.

The car had twenty-six windows.

At six of these the curtains were drawn.

At how many were the curtains not drawn?

Mr. Oliver read his paper for seven less than thirty-seven minutes.

How many minutes did he read the paper?

What part of an hour did he read the paper?

It was two minutes more than half an hour before the train stopped the first time.

How many minutes was it?

At this station ten people came in.

How many were then in the car?

At one time there were thirty-nine people in the car.   Nine were children.

How many grown people were there?

The conductor took eighty-seven fares between Boston and Providence.

That was ten more than he had taken the day before.

How many did he take the day before Mr. Oliver's journey?

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CHAPTER XXXVII. [W. and R., 83.

"Nineteen birds and one bird more —
    That makes twenty — that's a score."

How many two-cent stamps can be bought for twenty cents?

How many ten-cent stamps can be bought for twenty cents?

How many five-cent stamps can I buy for twenty cents?

I had twenty cents, and I have bought ten stamps.

What did I pay for each?

With twenty cents I bought two stamps of the same kind.   Each cost   cents.

What must I pay for ten two-cent stamps?

I had twenty stamps. After using ten, how many had I?

If you have twenty cents, how many five-cent fares in the street-cars can you pay?

If you have twenty cents, and pay only one fare, how much will you have?

I have spent fifteen cents and five cents, for fares.

I have spent twenty cents and have paid fares.

On Monday, Richard had twenty cents.

Now he has only enough left to pay one fare. How much has he spent?

I have fifteen cents, but I want to pay four fares.

How many more cents do I need?

Mr. Phillips has sixteen sheep.

He wants a flock of twenty. How many must he buy?

A score of sheep are four times   sheep.

Twenty sheep are twice   sheep.

Mr. Snow had eighteen sheep and bought two. How many had he then?

FROGS AT SCHOOL.

Twenty froggies went to school
Down beside a rushy pool, —
Twenty little coats of green;
Twenty vests, all white and clean.
"We must be in time," said they;
"First we study, then we play;
That is how we keep the rule
When we froggies go to school."

Master Bullfrog, grave and stern,
Called the classes in their turn;
Taught them how to nobly strive,
Likewise how to leap and dive;
From his seat upon the log
Showed them how to say, "Ker-chog!"
Also how to dodge a blow
From the sticks that bad boys throw.

Twenty froggies grew up fast;
Bullfrogs they became at last;
Not one dunce among the lot;
Not one lesson they forgot;

Polished in a high degree,
As each froggie ought to be,
Now they sit on other logs,
Teaching other little frogs.

Golden Book of Choice Reading.

CHAPTER XXXVIII. [W. and R., 84.

I have twenty sticks to use in making four figures.

How many sides will each figure have?

If I make five figures, each will have   sides.

If twenty sticks are used in making two figures, how many sides will each have?

If four figures are made with sixteen sticks, each figure will have   sides.

I can make a square with four sticks.

How many sides have three squares?

How many angles have four squares?

To make five squares with splints I should use   splints.

Three triangles have   sides.

How many sides have five triangles?

Four triangles have   angles.

Six triangles have   angles.

Neil sold ten pairs of chickens. How many chickens did he sell?

He has eighteen chickens left.

He wishes to put nine into each coop.

How many coops will he use?

Then he thinks he will put them into six coops, an equal number in each coop.

How many will there be in each?

One day the eighteen little chickens were running around in the yard.

Fifteen were yellow and the other   were brown.

There were three little baskets just alike. They were filled with oranges.

There were eighteen oranges in all.

How many oranges were there in each basket?

Courtenay and Albert had oranges for luncheon.

They found eighteen seeds in the two oranges.

An equal number was found in each orange.

Albert found   seeds, and Courtenay found

All but three of the seeds were large and full.

How many large seeds were there?

CHAPTER XXXIX. [W. and R., 86-88.

There were four white roses, six moss roses, two yellow roses, and seven red roses in the garden one morning.

Bertha picked them all and had   roses.

Bertha was born in 1880.

Charlie was born four years earlier. Charlie was born in   .

There are thirty days in November.

In 1884, Thanksgiving Day was three days before the last day of the month.

What day was Thanksgiving?

If we are in the workshop half an hour twice a week, how many minutes are we there during the week?

If we go out of doors at five minutes after eleven o'clock, and stay out fifteen minutes, at what time do we come in?

Mr. Davis has hired a house.

He pays one hundred dollars a month for rent.

How much rent does he pay for six months?

At the end of nine months how much rent should he have paid?

Mrs. Thomas wrote six letters on Saturday, none on Sunday, eight on Monday, and six on Tuesday.

How many letters did she write in all?

Cora's cat caught two mice on Monday, seven on Tuesday, four on Wednesday, and six on Thursday.

Wasn't she a busy cat to catch   mice in   days?

Mrs. Weston's family use twenty quarts of milk in a week.

How many quarts will they use in four weeks?

How many gallons do they use in a week?

An officer sent out three parties of twenty men each.

How many men were sent out?

A man was driving a flock of eighty sheep, when three ran away.   How many stayed with him?

There are nine pens in one box and nine in the next.   The next is empty.

There are only two pens in the fourth box.

How many pens are there in all?

In a paper of little pins, there are thirty pins in each row. How many are there in three rows?

There were fifty boards in a pile.

All but four were pine. There were pine boards.

Ninety feet of whitewood were ordered by a carpenter.

The mill sent six feet less than he ordered.

How many feet were sent?

"I love you, mamma."
"And I love you.
How long will you love me,
Little Boy Blue?"
"As long as twenty
Is ten times two."

———◆———

CHAPTER XL.

PLAYING STORE.

Two weeks, or   days, after the seventh of April is the   of April.

On that day, last year, our class played store.

Miss Field was the storekeeper.

Each child had twenty-one counters for money.

Some of us called our counters dollars, and some called them pennies.

Kenneth went first to the store.

" Miss Storekeeper, have you any pencils for three cents, please ?   If you have, I would like seven, and that will take all my money."

Madeline bought a bunch of flowers for eighteen cents, and a pencil for three cents.

She spent   cents, and had   left.

John bought only a pencil, for three cents.

He had   cents left.

Margaret bought three spools of silk at seven cents each.

She had   cents left.

Charlie bought a desk for twenty dollars, and spent the rest of his money for books.

Rosamond said, " I want to buy four skeins of pink silk at five cents a skein.   I want in change."

Grace bought a yard of blue ribbon for ten cents, and had   cents in change.

Tom said, " I have three five-cent pieces and three   -cent pieces."

He spent fourteen cents for marbles, and the rest of his money for a top.

The top cost   cents.

William played that his money was in three pieces, — a penny and two-cent pieces.

He wished to save a third of his money.

He spent fourteen cents for roses, and saved   cents.

When Mabel went to the store, she said, "I left eleven cents of my money at home, and I have only   cents to spend."

Mark bought   tops at seven cents apiece.

Mott played that he had eleven pennies and two   -cent pieces.   After he had paid seven cents for a ball, he found that he had   cents.

Pauline went shopping for her mother.

" I would like a paper of number ten needles, if you please."

"That will be three cents," said Miss Field.

" And I would like as many two-cent stamps as I can buy for eighteen cents."

Miss Field gave her   stamps.

CHAPTER XLI. [W. and R., 91.

Jack has fourteen rabbits. Robert has nine more than Jack.

If Jack had seven more rabbits, he would have　　．

Robert has three pens for his rabbits.

He has put seven into each pen, and he has a pair left over.

I wonder what he will do with them.

Fred has six times three rabbits.

He is to have nineteen in all. How many more must he have?

He keeps his　　rabbits in three pens.

He keeps　　in each pen.

I have in my purse a piece of money which is worth two quarters of a dollar.

It is a　　-cent piece.

I have one piece of money which is worth four times as much as one-fourth of a dollar. What is it?

I have five cents. I have one three-cent piece and　　pennies.

I have eight cents.   I have two three-cent pieces and   pennies.

I bought three yards of tape at three cents a yard, and a two-cent postage stamp.

I spent   cents.

I bought three yards of ribbon at a quarter of a dollar a yard.

How many quarters of a dollar did I spend ?

Kate's boots have each eleven buttons.

After she has buttoned nine, how many has she yet to button ?

Kate drank a glass of water.

When she had taken three times one-third of it, she had   more to drink.

On Monday, there were twenty-three buds on Kate's primrose.

Twelve opened on Tuesday.   The others opened on Wednesday.

If I can walk from Park Square to the Charles River in one-eighth of an hour, I can walk twice as far in one-   of an hour.

If it takes one-sixth of an hour to walk from the Public Garden to the Old State House, how long will it take to walk three times that distance ?

CHAPTER XLII.   [W. and R., 92.

Twenty-four sparrows sat on a bush.

A little girl threw some crumbs to them.

All but three birds flew after the crumbs.

How many sparrows flew out of the bush ?

Kate planted twenty-four sweet peas.

This was ten more than Bessie planted.

How many did Bessie plant ? •

This cotton boll has eight times three seeds.

Only twenty are strong enough to _plant.
   are too small.

See my cluster of cherries !   There are one-eighth of twenty-four cherries.

Robert counted twenty nodes in one nasturtium stem.

He counted twenty-four nodes in another.

How many more were there in the second stem than in the first ?

Each lily-cup has six parts.

Twenty-four parts belong to   lily-cups.

A butterfly has four wings.

Six butterflies have   wings.

To how many kittens do twenty-four feet belong ?

King Alfred divided his day into three equal parts.

There are twenty-four hours in the day.

He worked eight hours.

He slept eight hours.

He had   hours in which to rest and eat and to do what pleased him.

Mollie's baby sister sleeps fourteen hours of the day.   How many hours is she awake?

It is twenty minutes past nine.

What time will it be in four minutes?

At twenty-four minutes past eleven we come in from recess.

We are out four less than twenty-four minutes.

We go out at   minutes after eleven.

Mary has written fourteen minutes, to-day.

Yesterday she wrote twenty-four minutes.

That is ten minutes longer than she has written to-day.

"Sing a song of snowflakes,
    Icicles and frost!
  Four-and-twenty snow-birds
    In the woods were lost.

When the storm was ended,
  Happy birds were they ;
By some crumbs befriended,
  They lived to fly away !

Sing a song of raindrops,
  Clouds and April weather !
Four-and-twenty redbreasts
  Caught out together.
When the shower was ended,
  What a song was heard
About the rainbow splendid
  From each dripping bird !

Sing a song of sunshine,
  Bees a-humming praises !
Four-and-twenty hours
  Lost among the daisies.
Hunt the wide world over,
  From sea to continent,
You never will discover
  Where the hours went !"

                              SELECTED.

CHAPTER XLIII. [W. and R., 93.

A STORMY DAY.

There are eighteen children in our class.

One stormy day in January, one-third of them were kept at home.

Only   were at school.

They were busy that day.

Florence learned three verses of "The Builders."

That is one-third of the number in the poem.

Fred drew two maps of North America, and three of the United States.

How many maps did he draw?

Edwin worked in the workroom.

He made a little box.

He drove eight nails into it.

This is two-thirds of the number needed.

Last week Mabel had one-eighth of twenty-four perfect spelling-lessons.

This week she has had one-sixth of twenty-four perfect lessons.

She had seven perfect spelling-lessons in the two weeks.

We have twenty-four pencils for our class.

One-fourth of them need to be sharpened.   are already sharp.

The class had a spelling-lesson.

We had twenty-four words. Half of them were new words.

Two more than one-third of the class had perfect lessons.

          children made mistakes.

If one-sixth of our class of eighteen had been absent,   would have been present.   ·

In Miss Field's class there are twenty-four children.

One-third are girls.   There are   boys.

On that stormy day, one-eighth of this class were ill.   The other   came to school.

Of the   children who came to school, one-third were girls.

There are one-half of twenty school days in   weeks.

In one week there are five, which is one- of twenty days.

MARION.

Marion lives in Milton.

She has a little pear-tree of her own.

There are six large pears on it.

This is one-third as many as the tree bore last year.

One-half of her twenty pansies are white, and half are purple.

She has   of each kind.

She wishes to transplant five white ones.

This is one-   of all she has.

There are twenty-four tulips in Marion's garden.

Two more than one-third are white.

The others are red and yellow.

There are   red and yellow tulips.

On Saturday morning, Marion found six eggs in the barn.

This is one-fourth of two dozen.

Her mamma needed one-third of eighteen to use in making cake.

Did Marion find enough?

The next day she found one-third of fifteen.

The third day she found one-fourth of twenty.

Did she find more the second day or the third ?

On Tuesday, she brought six eggs to school in a basket.

This is only one-third as many eggs as the basket would hold.

CHAPTER XLIV. [W. and R., 94, 95.

MRS. TRAIN'S MENDING.

It was six days after the eighteenth of November.

Mrs. Train had breakfast at eight o'clock.

Three hours later she sat down to sew.

Her friend, Mrs. Glover, has eleven children.

Mrs. Train has seven less than Mrs. Glover.

Mrs. Train's   children give her a great deal of sewing to do.

That morning she found on her table thirty-one pieces of work.

Seven pieces were new cloth.

Those she put by themselves into a basket.

The other twenty-four pieces needed to be mended.

With the mending were six pairs of stockings.

There were twelve stockings to be mended.

Mrs. Train put them into the stocking-bag.

There were still   pieces of mending on the table.

First she took a skirt.   It had fourteen tucks in it.

Three tucks needed mending.   How many did not need it?

The next piece of work was a waist.

It once had had fourteen buttons.

All but eight were gone.

Mrs. Train sewed on the other   buttons.

The next was a dress skirt trimmed with thirty-six buttons.

Mrs. Train found that eight of them were worn out.

She took them off the skirt.   How many were left on?

Then she took the stocking-bag.

There were four of Nora's stockings.

In one there were five holes, in another four, in another two, and in another nine.

How many holes were there in Nora's stockings ?

There were two pairs of socks.   These were Jack's.

In one there were eight little holes.

In another there was one large hole.

In the next there were three large holes.

In the fourth there were eight holes.

How many holes were there in Jack's socks ?

Mrs. Train then took baby Kate's little stockings.   There were four.

In one there were six holes, in another none, in another nine, and in the fourth there were nine.

" How could baby have worn so many holes?" said Mrs. Train.

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CHAPTER XLV.   [W. and R., 97, 98.

A BUSY MORNING.

Mrs. Williams used a quire of paper in writing a dozen letters.

How many sheets of paper did she use ?

She wrote   letters and used   sheets for each letter.

She gave her little son, Kenneth, twenty-four cents to buy two-cent stamps for her letters.

Can he buy enough stamps for all?

If Mrs. Williams uses three pounds of letter paper in a month, how many pounds will she use in five months?

If the postman comes to Mrs. Williams' house four times each day, how many times does he come in a week?

Kenneth has twenty cents in　　　five-cent pieces. He wants to change the money so as to have　　　ten-cent pieces.

How else can he change the money?

A score of Kenneth's books lie on the table, in four even piles, with　　　books in each pile.

Kenneth has a two-foot rule.

The greatest length he can measure with it is　　　inches.

He is going to measure three squares.

How many sides will he measure?

One square is to be four inches on each side.

How many inches will it be around the square?

One side of the second square is to measure five inches.

Each of the other sides will be   inches long.

The square will be   inches around.

I gave eleven cents a yard for olive green ribbon.

I paid twenty-two cents. How many yards did I buy ?

How many feet of ribbon should I have had if I had given but eleven cents ?

I paid forty cents a dozen for spools of basting cotton.

What did half a dozen cost ?

What must I pay for three spools ?

Mary has eighteen cents in silver three-cent pieces.   How many three-cent pieces has she ?

Kate has twenty-two cents in two-cent pieces. How many two-cent pieces has she ?

How many hands have twelve children ?

" Thirty days hath September,
    April, June, and November ;
    All the rest have thirty-one,
    Save the second month alone.
    That has just eight and a score,
    Till leap year gives it one day more."

CHAPTER XLVI. [W. and R., 99.

David wrote nine words on the blackboard.
After rubbing out two-thirds of them,
were left.

He wrote fifteen words.   He erased a third
of them.   How many were left ?

He wrote eighteen capital letters.

One-third were A's.

One-sixth were E's.

One-half were D's.

He wrote the word *Roses* in colored crayon
ten times.

One-half were written in yellow.

One-fifth were written in red.

The rest were pink.

How many times did he write it in yellow ?

He wrote it   times in pink and
times in red.

Alice spent one-sixth of last year in the coun-
try.

She was there   months.

Helen was in Brookline from the first day of July until the thirty-first.

How many days was she there ?

She was in Brookline   weeks and   days.

We had a vacation of one-half of sixteen days.

The Kindergarten had a vacation of two-thirds of twenty-one days.

Howard's birthday is the fourth of March. Emily's is the twenty-eighth of March. Emily's is   days later than Howard's.

There are twenty-four hours in a   .

If I am in school one-sixth of a day, I am there   hours.

If I play one-eighth of the day, how long is my play time ?

A man was engaged to work for twenty hours.

One-fourth of the time was to be spent in mending a fence.

One-fifth of the time was to be spent in sharpening tools.

He sharpened one-third of twenty-four planes.

He sharpened one-fourth of two dozen saws.

One-half of twelve chisels needed to be sharpened.

He had time to sharpen only one-third of twelve chisels.

CHAPTER XLVII. · [W. and R., 100.

Mrs. Frost bought fifty yards of linen for ten sheets.

She will use   yards for each sheet.

She bought a hundred yards of cotton cloth.

Fifty yards of it she sent to her sister, Mrs. Porter, in Kansas.

She kept   yards for herself.

Mrs. Frost also bought three towels at twenty-five cents each.   How much did they cost?

She bought two towels at fifty cents each. How much did they cost?

How much more did she pay for them than for the three cheaper ones?

Mrs. Frost paid one-fifth of twenty-five dollars for a table-cloth.

She had twice twenty-five dollars when she went shopping.

She brought back only five dollars.

She had spent   dollars.

Margaret Frost went shopping with her mother.

She had four times twenty-five cents.

She had two fifty-cent pieces.

They are worth one hundred   , or one   .

If she changes one of the half-dollars for five-cent pieces, how many five-cent pieces will she have ?

She spent twenty-five cents for car fares.

How much had she then ?

The fares were each five cents.

How many did she pay ?

If she spends five five-cent pieces, how much money will she spend ?

With the seventy-five cents she had left, she bought handkerchiefs at twenty-five cents each. She bought   .

Mrs. Frost made one-fifth of her fifty yards of cotton into pillow-slips.

How many yards did she use in that way ?

The other   yards she made into sheets.

Mrs. Porter made twenty-five pillow-slips from her fifty yards.   How many yards were there in each ?

CHAPTER XLVIII. [W. and R., 102.

Richard has been making triangles with splints.

He used three splints for each triangle.

How many did he use for nine triangles?

How many splints did he need for seven triangles?

How many triangles could he make with twenty-four splints?

How many squares could he make with them?

He played that twenty-seven splints were soldiers.

He placed them in three rows.

How many were there in each row?

He wanted his soldiers to go through a narrow street, so he put the twenty-seven men in nine rows,   men in each row.

Then he made two companies.

He had seventeen in one company and
in the other.

Richard broke two splints.   So he played that two of the soldiers were wounded.

Then he had twenty-five soldiers in his company.

He sent out the splint soldiers in parties of five. How many parties did he send out?

He put away one splint, and played with two dozen, or twenty-　　, splints.

He played that they were pencils.

He wanted to divide them among eight boys.

How many could he give to each boy?

Then he played that they were boards, and that he was selling them to six carpenters.

How many boards did he sell to each carpenter?

Next he pretended they were screws.

He could screw on twelve hooks with them.

How many screws could he put into each hook?

He took twenty-seven again.

He played they were logs of wood.

He put two dozen in one pile and the other in another.

He played that eighteen logs were ash and were pine.

Then he called twenty logs oak, and chestnut.

At last he played that the splints were acorns.

Seventeen grew on one tree and ten on another.

A squirrel came and carried off all the acorns.

THE SEASONS.

Three bright months of springtime,
　　Cheery, wakening weather,
March, April, and sweet Maytime —
　　Tears and smiles together.

Three long months of sunshine,
　　Fragrant with June roses,
New-mown hay and clover,
　　Ere the summer closes.

Three of golden glory,
　　Maples royal red;
For the Lord of Harvest
　　Is autumn's welcome spread.

Three of snow and sleigh-bells,
　　Chilling winter rain,
Christmas' holy greeting,
　　Then the spring again.

CHAPTER XLIX. [W. and R., 104, 105.

Fred has two dozen doves.

He bought four-eighths of them of Mr. Hubbard, and four-eighths of John Scott.

What part of all his doves did he buy of these people ?

Six-eighths of the doves are gray. Two-eighths are white.

What part of all his doves are the gray doves and the white doves ?

One-third of Fred's doves will feed from his hand.

The others have not yet learned to do so.

How many do not feed from his hand ?

He has given names to five-sixths of the doves.   His sister has named one-sixth.

        -sixths of the doves are named.

Dora and Bella and Mollie go to sewing-school.

Sometimes they play sewing-school at home.

Dora and Bella are sisters.

Mollie and Hattie are sisters.

Hattie is a very little girl.   She does not sew.

Dora has sewed two seams, each two-eighths of a yard long.

How many half yards has she sewed?

She has to hem a ruffle half a yard long.

After she has hemmed one-eighth of a yard, how many eighths has she to hem?

She hemmed three-eighths and then went out to play.

How many eighths of a yard did she leave undone?

Bella has seven-eighths of a yard of lace for the neck and sleeves of a dress.

Half a yard is needed for the sleeves.

How much will be left for the neck?

She has sewed the lace into the sleeves.

How many eighths of a yard has she sewed?

She has sewed one-eighth of a yard of lace into the neck.

How many eighths has she sewed in all?

The first needleful of thread Bella took was two-fourths of a yard long.

It was·   a yard long.

When she had used two-eighths of a yard, how much thread had she left?

Mollie did three-fifths of her sewing before she went to play, and two-fifths when she came in.

How much of her sewing did she do?

It took two-fifths of an hour to do the first part, and two-fifths of an hour to do the rest.

What part of an hour did it take to do all Mollie's sewing?

Mollie sewed two-thirds of the buttons on to her dress.   Mamma sewed one-third.

How many more buttons are there to be sewed?

While Mollie was sewing, Hattie worked in her little garden.

One-half, or   -fourths, was planted with pansies.

The other half was planted with lilies and sweet peas.

————◆————

CHAPTER L.   [W. and R., 106, 107.

I have twenty-one oak leaves and seven beech leaves.   How many leaves have I in all?

I find seven lobes in an oak leaf.   How many lobes can I find in four oak leaves?

Here are twenty-eight maple leaves, just as I took them from the stem.

They grow in pairs. How many pairs have I?

It took our beans a fortnight to grow an inch.

In another fortnight they were five inches high.

How many days was it from the planting of the seed until the bean plants were five inches high?

It was   weeks.

I had a score of sweet peas, and I found eight more in my garden.

How many have I?

Alice's rose has twenty-eight petals.

Twenty are fair and sweet, but   are wilted and dark.

Helen found twenty-eight acorns.

All but twenty had lost their cups.

There were twenty-eight ducklings in a pond.

All but twenty-four were having their first swimming-lesson.

How many were taking the first lesson?

        butterflies have twenty-eight wings.

Will bought eight two-cent stamps and five postal cards. How much did he spend?

He gave the clerk four five-cent pieces and a three-cent piece.

How much money did he give him ?

How much change should he have ?

Tom spent ten cents.   He bought two tops at four cents each, and a slate-pencil for
cents.

I had seventeen cents.   I paid three street-car fares at five cents each, and had   cents left.

I had twelve cents in three pieces of money.

Two were five-cent pieces.   What was the third ?

Mr. Laws had, in his purse, sixteen dollars in bank-notes.

He had three five-dollar bills and a one-dollar bill.

On a cushion there were three black pins.

There were four times as many white ones. How many white pins were there ?

How many pins were there in all ?

How many more white pins were there than black ones ?

Mrs. Morris had two dozen spoons on the table.

Eleven people sat at the table.

Each person used two spoons.

How many spoons were not used ?

Cook put twenty-eight apples into a pan, and set them into the oven to bake.

Twenty-one were tart apples.   The rest were sweet.

Tom lost half his walnuts and had fourteen left. He had   at first.

Thirteen quarts of coffee were made for break-fast, in a hotel.

That was one quart more than   gal-lons.

They kept it in two tanks, each holding six quarts.

There was one quart over, and that just filled an urn holding   pints.

Richard's brother, Horace, is twenty-four years old.

Richard is five years old.

Horace has lived four years more than times as long as Richard.

A man owns thirteen oxen.   He has six pairs, and how many more?

CHAPTER LI.

MRS. OSBORNE'S WORK-BASKET.

Mrs. Osborne's work-basket was upset.

The four children, Mollie, Effie, Ned, and Oliver, were in the room.

They tried to pick up the things, and to put them in order again.

Mollie was eight years old.

Ned was seven years old.

Effie was five.   Oliver was three.

How many years are eight and seven and five and three years ?

Their mamma was thirty years old.

She had lived two times fifteen years.

She was   years older than Effie.

How long is it since she was a score of years old ?

When the basket fell over, the children sprang to catch the spools as they were rolling across the floor.

Mollie caught seven.   Ned caught seven.   Effie caught seven.

Baby Oliver did not catch any.

How many did they find?

Mrs. Osborne said, "Children, there were seven spools of silk in the basket, six spools of white cotton, five spools of black cotton, and three spools of linen thread. How many were there in my basket?"

When they had found twenty-one spools, they had   more to find.

Mollie found a paper of needles.

It had five parts. There were six needles in each part.

How many needles were there in the paper?

Ned found a cushion with needles in it.

There were seven sewing needles, three button needles, six worsted needles, and four darning needles.

How many needles were in the cushion?

Effie picked up the pincushion.

She counted the pins.

There were seven big white ones, seven little white ones, six black ones, and one bonnet pin.

How many pins did Effie count?

Four little balls of tape rolled away.

Mrs. Osborne said there were four yards in each ball. How many yards were in all the balls?

There were some pieces of braid, too.

There were seven yards of gray braid, three yards of brown braid, seven yards of dark blue, and eight yards of red.

How many yards of braid fell out of the basket ?

Baby Oliver picked up the buttons.

He gave his mamma four handfuls.

The first time he gave her two.

The next time he gave her nine.

Then he brought seven. The last time he gave her six.

How many buttons did he give her ?

There were some buttons on a card.

They were in three rows, eight buttons in a row. How many buttons were there on the card ?

How many dozen buttons were there ?

How many more than a score of buttons were on the card ?

Mrs. Osborne had had one-sixth of eighteen thimbles in the basket.

At first the children could find only one-fifth of ten thimbles.

The other thimble had rolled under the table, where baby Oliver found it.

"O little minute, hurrying past,
  Turn back, turn back, don't fly so fast!"

"Look well at my face as I hurry on;
  When my back is turned, I'm forever gone."

M. L. F.

CHAPTER LII. [W. and R., 110-112.

Will has been picking currants.

He has filled a two-pint pail fifteen times. How many pints has he picked?

He has picked   quarts of currants.

There are thirty currant bushes in the garden.

Four times seven bushes bear red currants, and the other   bear white currants.

Thirty apple-trees grow in the orchard.

Three times eight bear tart apples. The others bear sweet apples.

How many trees of each kind are there?

If a man breathes fifteen times a minute, and with each breath inhales a pint of air, how many pints will he inhale in a minute?

How many pints will he inhale in two minutes?

How many quarts will he inhale in two minutes?

Amy's basket is half filled with daisies.

It is four-eighths full of buttercups.

What part of the basket is full?

It took one-third of an hour to gather the buttercups.

How many sixths of an hour did it take?

It took Amy one-sixth of an hour to gather the daisies.

How many sixths of an hour did it take to gather all the flowers?

How many half-hours did it take her?

How many quarter-hours did Amy gather daisies and buttercups?

ROGER'S SHELLS.

Roger had some sea shells.

One-third of them are snail shells. Two-thirds are clam shells.

What part of all his shells are these?

The snail shells are   -sixths of all his shells.

He has thirty sea-urchins.

One-third of them came from Revere Beach, and four-sixths came from Beverly.

What part of all the sea-urchins came from these two places?

How many came from Revere Beach?

Four-eighths of them have their spines.

One-   of all Roger's sea-urchins have their spines.

The spines have been taken from four-eighths of them.

One-   are without spines.

Three-sixths of them are on the first shelf of Roger's cabinet and three-sixths on the second shelf.   What part of all are on the two shelves?

On which shelf are there more?

CHAPTER LIII.   [W. and R., 116-118.

NORA'S SHOPPING.

Nora is shopping for her mamma.

Mrs. Train thought dress braid was seven cents a piece.

She told Nora to buy as many pieces as she could for twenty-eight cents.

The braid was eight cents a piece, so for twenty-eight cents she could buy   pieces and have   cents left.

How many rolls of tape, at six cents a roll, can Nora buy with sixteen cents?

How many spools of silk, at five cents a spool, can she buy for fourteen cents?

How many skeins of silk, at four cents a skein, can she buy for thirteen cents?

Mrs. Train has ordered a pair of boots for Nora.

They are to cost eight dollars.

She wants to order the same kind for the other children too.

For how many pairs will eighteen dollars pay?

How many silk umbrellas, at three dollars each, can Mr. Train buy for sixteen dollars?

Eight dollars will pay Mr. Train's gas bill for one month.

For how many months will fourteen dollars pay?

Ten dollars will pay the gas bill for how many months?

The *St. Nicholas* costs three dollars a year.

For how many years will ten dollars pay ?

Thirteen dollars will pay for how many copies each year ? .

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CHAPTER LIV. [W. and R., 120.

If Neil learns one-third of a poem of twenty-one lines, and then forgets one-seventh of the poem, how many lines does he remember ?

Harry has copied six lines of *Excelsior*.

There are six times as many lines in the poem. How many lines has he to copy ?

It takes twenty-four hours to go by train from Boston to Cincinnati.

That is four times as long as it takes from Boston to Troy.

Our moth came out on the twenty-first of April.

He lived until the twenty-eighth.

He lived   days, or a   .

Christmas is the twenty-fifth of December.

How many days after the fifteenth is it ?

BUILDING THE HOUSE.

Some workmen were twenty-four days in building the cellar wall of a new house.

This is six times as long as it took them to dig out the earth to make a place for the wall.

Masons, who are building the large stone house, raise the walls four feet each week.

How many weeks will it take to raise it twenty-eight feet?

How many yards do they raise it each week?

When the men have worked three weeks, how many yards high will the wall be?

When they have built twenty-four feet, how many more feet must they build before it is ten yards high?

MY QUIRE OF PAPER.

On Tuesday, I bought a quire of paper for twenty-five cents.

I gave the clerk three ten-cent pieces.

He gave me   cents in change.

I had a quire, or   sheets.

I put eighteen sheets into the drawer and the other   sheets into my letter-case.

On Thursday, I counted the sheets and found I had only twelve left.

How many had been used?

By Saturday, I had used twenty-one sheets. How much of the quire had I?

If the twenty-one sheets had lasted a week, how many letters might I have written each day, using one sheet for each letter?

If I had written three letters each day, using a sheet for each letter, the quire would have lasted   days.

There are twenty-eight days in February.

If I had used a sheet of my letter-paper each day, beginning the first of February, on what day of the month should I have used the last sheet?

How many weeks are there in February?

How many weeks are there from the fourteenth of February to the first of March?

A RHYME OF TIME.

The little second must begin it,
For sixty seconds make a minute.
Sixty minutes make an hour,
Long enough for sun and shower.
Twenty-four hours make a day,
For work and rest, for sleep and play.

Seven days we call a week,
For six days we our work must seek.
Four weeks the name of month may take,
And two weeks just a fortnight make.
A year, just twelve months, makes the ring
Of summer, autumn, winter, spring.

———◆———

CHAPTER LV.   [W. and R., 123-127.

THE RICE FAMILY.

Mrs. Rice and her little daughter have the same birthday.

It is ten days before the seventeenth of January.

Last year Mrs. Rice was thirty years old, just ten times as old as Gertrude.

Gertrude was   years old.

Mrs. Rice had ten birthday gifts.   Gertrude had twenty-eight.

This was   more than twice as many as her mamma had.

Mrs. Rice ordered forty gills of milk.   How many pints did she order?

She ordered   quarts, or   gallons.

Mrs. Rice ordered three dozen eggs.

The cook made three large loaves of sponge cake, using ten eggs for each cake.

There were   eggs left.

One morning Mr. Rice had forty-seven dollars.

He had four ten-dollar bills and   dollars in silver.

He gave Mrs. Rice forty dollars to pay some bills.

There was one of ten dollars to the grocer, one of ten to the milkman, one of the same amount to the ice-man, and ten dollars were due to the servants for wages.

How much did Mrs. Rice have after paying these bills?

Mr. Rice has just been paid for fifty hours' work.

He wrote five hours each day, for ten days.

How many hours did he work the eleventh day?

Lucy had a quire of paper for a Christmas present.

Lucy is Mrs. Rice's sister.

She has written ten letters, using two sheets for each letter, so she has only ____ sheets now.

She gave to her little brother Philip twenty-five cents, to buy for her two ten-cent stamps.

She gave the change to him.

If she had given him ten times as much, he would have had fifty cents.

How much did she give him?

OUR NASTURTIUMS, AND HOW THEY GREW.

Our nasturtiums were planted thirty-five days ago.

How many weeks is it since they were planted?

The dark red one is now twenty-one inches high.

Three weeks ago it was only one-seventh as high.

Since it was two weeks old it has grown eighteen inches, for it was then but ____ inches tall.

The tallest one at the window is now thirty-five inches high.

How much has it grown since it was twenty inches high?

Seven inches from the top there is a large leaf. How far from the ground is it?

This leaf has seven veins. How many veins have five leaves of the same kind?

On Monday morning, Amy came to school at twenty minutes past eight.

Fifteen minutes later she watered our plants.

She found seven blossoms on the nasturtiums.

Each blossom had five petals.

CHAPTER LVI. [W. and R., 125, 130, 131.

TRUE STORIES.

"How many of you know something this morning that you did not know yesterday?" asked Miss Field of her class.

A dozen hands were raised.

"You may each tell a story and ask a question. Nancy may begin," said Miss Field.

"A bee has four wings. How many bees will need thirty-two wings?"

Grace answered Nancy's question, so her story came next.

She asked how many robins would need thirty-two wings.

Philip said, " A lobster has four pairs of walking legs.   How many legs have four lobsters ? "

" May I ask another question, Miss Field ? "

" Yes, Philip."

" How many lobsters could walk on sixteen pairs of walking legs ? "

Marie said, " A spider has four pairs of legs. How many legs have two spiders ? "

" Thirty-two legs belong to how many spiders ? " asked Miss Field.

George said, " A grasshopper has two pairs of wings.   How many wings have eight grasshoppers ? "

Harry said, " A bird has three eyelids over each eye.   How many eyelids have six birds ? "

" How many more eyelids have six birds than six children ? " asked Miss Field.

MISS FIELD'S SCHOOLROOM.

Miss Field's schoolroom is thirty feet long.

Marjorie's desk is seven feet from the east end of the room.

Sallie's is nine feet from the west end.

How far apart are the desks?

How far is Sallie's desk from the east end?

How far is Marjorie's from the west end?

Marjorie's desk is twenty-six inches high.

How many feet high is it?

There are eight little tables in Miss Field's room.

Each table has four legs. How many legs have all those tables?

There are forty-eight marble tiles in the little hall.

Half are black and half are white.

There are   of each color.

A gardener has three dozen crocus bulbs, which he wishes to plant in six rows.

How many can he plant in each row?

If he should plant them in three rows, how many would he have in each row?

He has thirty-two tulip bulbs for a border.

He plants four in each row. How many rows will he have?

Annie buys twelve two-cent stamps and nine postal cards.

How much money does she spend?

She gave in payment four ten-cent pieces.

How much change ought she to have?

FARMER PHILLIPS' TURKEYS.

Farmer Phillips sold sixteen turkeys.

How many wings had they?

The poultry dealer to whom he sold them, hung up in front of his store the turkeys to whom sixteen wings belonged.

How many turkeys were hung up?

When he had sold the turkeys to whom twenty-four wings belonged, how many dozen turkeys had he sold?

He sold three turkeys to Mr. Wheaton.

A pair of them weighed together twenty pounds.

The three turkeys weighed thirty-two pounds.

How much did the third turkey weigh?

One of the ten-pound turkeys was to be boiled.

The other turkeys were to be roasted.

There were to be   pounds of roast turkey.

The farmer who sold the sixteen turkeys had sixteen left.   How many had he at first?

He had as many geese. This was four times as many as he sold.

He sold *thirty-two less twenty-four* geese.

Eighteen turkeys were looking for corn.

How many eyes were busy?

CHAPTER LVII.

AT THE WHARF.

On Monday morning, one-fourth of thirty-six boats lay at Howard's Wharf.

One-third of twenty-seven had been· there over Sunday.

One-fifth of twenty are schooners.

One-eighth of sixteen are tugs.

One-seventh of seven sloops lay at the wharf.

One-seventh of twenty-one came on Friday.

One-eighth of thirty-two came on Thursday.

The sloop is to stay one-fourth of twenty-eight days.

The name of the sloop is "Jessie."

She belongs in Philadelphia. Mr. Train owns her.

He bought her one-seventh of twenty-eight years ago.

He gave one-third of thirty-three hundred dollars for her.

Now he wants to sell the "Jessie."

The price is one-half of twenty-six hundred dollars.

While she lies at the wharf, one-sixth of eighteen men stay on board.

While she is sailing, she has a crew of one-third of eighteen men.

The tugs are named "Vim" and "Swift."

The "Vim" is to leave the wharf in one-sixth of thirty hours.

The "Swift" is to stay only one-eighth of twenty-four hours.

One-half of four schooners are laden with coal.

One-half of two schooners are laden with wood.

One-fourth of four schooners are laden with oysters.

The schooner which has oysters came from Norfolk.

It was one-third of six days in coming.

It has a crew of one-seventh of thirty-five men.

One-fifth of the men belong in Norfolk. The others belong in Philadelphia.

"What is time? The shadow on a dial, — the striking of the clock, — the running of the sand, — day and night, — summer and winter, — months, years, centuries."

LONGFELLOW.

CHAPTER LVIII. [W. and R., 136, 137.

Roger counted the commas on two pages of a story book.

On one page he found forty-two commas.

On the other he found sixteen less.

How many did he find on the second page?

Fred sees smoke clouds coming out of six chimneys.

This is one-sixth as many as Jennie sees.

She sees   dozen smoke clouds.

Pauline has taken forty-two French lessons.

She takes three lessons a week. For how many weeks has she taken lessons?

The frost killed two-thirds of the plants in my garden.

Thirteen were not hurt. How many plants were there?

One-half the nasturtium plants in Cora's garden were hurt by the frost.

Thirteen were unhurt. How many had she before the frost came?

If there are thirteen matches on one card, how many are there on four cards?

Mr. Stone owns three dozen cows.

He wants to sell half of them, or   cows.

Three dozen and a half bananas were eaten at luncheon one day in a hotel.

Two dozen and a half were yellow bananas.

How many were red?

A cube has six faces. How many faces have seven cubes?

Six cubes have   faces.

Four cubes have   dozen faces.

NASTURTIUMS AT HOME.

One-half of thirty-eight nasturtium plants grow in a window garden.

Thirteen plants hang over the little wire fence of their home.

The other   stand up to look in at the window in front of which they live.

Five times six seeds were planted.

One-half of twenty-two seeds did not come up.

All the plants wear red or yellow hoods.

We call their hoods flowers.

Each flower has one-eighth of forty petals.

Four flowers have half of forty petals.

Eight flowers have eight times five petals.

Each little hood has a peak or spur.

Forty hoods have thirty-two and   spurs.

The nasturtium keeps its honey at the end of the spur.

The hoods are gayly painted on the inside with stripes and lines.

Two less than one-ninth of thirty-six petals in each hood are painted.

The lines are for the bees, to show them the way to the honey.

CHAPTER LIX. [W. and R., 142, 147, 148.

Fred walked half a mile from home to his grandmother's, and one-twelfth of a mile from his grandmother's to school.

How far did he walk from home to school?

He took one-eighth of a box of biscuits to his grandmother.

His mother had used half the box.

How many eighths had been taken out?

His grandmother had half a dozen cookies on a plate.

She took four-eighths of a dozen from the plate, and gave them to Fred.

How many cookies were there left on the plate?

Fred gave three cookies to Max, on the way to school.

He gave him one-   of half a dozen cookies.

Tom wrote half a page about the starfish before recess, and one-eighth of a page after recess.

How much did he write in all?

Fred divided the circumference of a circle into nine equal parts.

He drew one-third of the circumference in blue crayon and one-ninth in red crayon.

How many ninths did he draw in blue and red?

Charlie had six dollars. He bought a little boat for two dollars.

That used one-   of his money.

He had   dollars left.

Harry spent a quarter of a dollar for a book and one-eighth of a dollar for a top.

How many eighths of a dollar did he spend?

He had half a dollar. After he had spent three-eighths, how many eighths had he?

How many five-cent street-car fares can you pay with fifty cents?

I can pay   fares with forty-five cents.

Mr. Marsh has sold three-quarters of a gallon of molasses from a gallon jug.

How much molasses is left in the jug?

How many eighths of a gallon are there?

There were forty-four fruit-trees in an orchard.

Fourteen were peach-trees. The rest were apple-trees.

How many apple-trees were there?

Marcia and Max had each a garden.

Marcia's was *forty-eight divided by four* feet long.

Max's was one-fourth of forty-eight feet long.

Marcia's was one-twelfth of forty-eight feet wide.

Max's was one-sixth of twenty-four feet wide.

Marcia divided her garden into twelve little squares.

Max divided his garden into six equal parts.
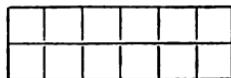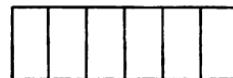
Marcia's Garden.   Max's Garden.

Each square in Marcia's garden was one-twelfth as large as her whole garden.

Each part of Max's garden was one-
as large as his whole garden.

Each square in Marcia's garden was one-half as large as one part of Max's garden.

Marcia sowed candytuft in one-sixth of her garden.

She sowed it in   squares.

Max sowed one-twelfth of his garden with candytuft.

He had half of one space sown with it.

One-third of Marcia's garden was filled with pansies.

There were pansies in   squares.

Max had just as large a part of his garden planted with pansies.

How many sixths were planted with pansies ?

Marcia planted one-fourth of her garden with sweet peas and one-twelfth with forget-me-nots.

     twelfths were planted with sweet peas and forget-me-nots.

On Saturday, Max weeded one-third of the garden in the morning, and one-twelfth after the sun was gone down.

How many twelfths of his garden did he weed that day ?

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CHAPTER LX. [W. and R., 156-158.

If you sleep nine hours each night, how many nights will it take you to sleep fifty-four hours ?

How many days are there in eight weeks ?

There are   school days in eight weeks.

How many school days are there in nine weeks?

If a chair has four legs, nine chairs of the same kind have   legs.

How many legs have eight chairs?

How many faces have nine cubes?

In a large schoolroom there are nine benches. Six children can sit on each bench.

How many can sit in the room?

A class of eight times seven people came in. There were seats for all but   .

There were fifty-four schoolbooks belonging to a class of nine children.

How many books belonged to each child?

If there are six posts in one yard of fence, in nine yards there will be   posts.

Fifty-six posts were bought for eight yards of fence.

How many posts may be used in each yard?

If Marion takes nine steps in walking three yards, how many steps does she take in walking nine yards?

Our flag has thirteen stars.   How many stars are needed for four flags?

"BUTTON, BUTTON, WHO'S GOT THE BUTTON?"

Kate's gown has seven times eight buttons.

There are three times sixteen on the front of the body and ____ on each sleeve.

Eleanor's gown has seven times eight buttons too.

She has five times eight on the body, six on the skirt, and ____ on each sleeve.

Marion's gown has eight times seven buttons.

Marion bought four extra buttons.

The buttons cost fifty cents a dozen.

How much did she pay for all her buttons?

She has four times nine on the skirt, two times seven on the body, and ____ on the sleeves.

There are ____ on the whole gown.

Emily needs fifty-six buttons.

She has only four dozen. She must buy ____ more.

"We are but minutes, little things,
  Each one furnished with sixty wings
  With which we fly on our unseen track,
  And not a minute ever comes back."

" We are but minutes, — use us well,
For how we are used we must one day tell.
Who uses minutes has hours to use ;
Who loses minutes whole years must lose."

Graded Selections for Memorizing.

CHAPTER LXI. [W. and R., 150.

SCAMPER.

My cat's name is Scamper.

She is one-half of forty-eight months old.

She is one-eleventh of   years old.

From the tip of her nose to the end of her tail is one-half of fifty-four inches.

Her tail is one-fifth of fifty-five inches long.

She has one-eleventh of forty-four feet.

She has one twenty-fifth of fifty forefeet.

Scamper's forefeet are her hands.

On each hand she has one-ninth of forty-five fingers.

On both hands she has one-fifth of fifty fingers.

She has one twenty-eighth of fifty-six hind feet.

On each hind foot she has one-twelfth of forty-eight toes.

On all her four feet she has seven less than one-half of fifty fingers and toes.

She has one twenty-seventh of fifty-four eyes and one twenty-fourth of forty-eight ears.

The distance between her ears is one twenty-seventh of fifty-four inches.

When Scamper finds a hole large enough for her to put her head through without touching her whiskers, she will go through.

From tip to tip, her whiskers measure one-seventh of fifty-six inches.

Can she go through a hole one-sixth of fifty-four inches wide ?

———◆———

CHAPTER LXII. [W. and R., 161-168.

Max was at the mountains fifty-eight days.

That is eight weeks and   days. ·

Max has lived sixty months.   He is four years and   months old.

Forty days are five weeks and   days.

When the clock has marked thirty-nine hours, the hour-hand has been around three times and has marked three hours more.

Three-quarters of an hour is forty-five minutes.

It is five minutes more than five times   minutes.

It is   minutes more than six times six minutes.

Robert walked for twice thirty-two minutes.

This is   minutes more than an hour.

Charlie was with him three-quarters of an hour, or   more than six times seven minutes.

If King Alfred kept his rule of sleeping eight hours of each twenty-four, how many hours must he have slept in seven nights?

How many nights must it have taken him to sleep sixty-four hours?

In October, one of our ivies had sixty-four leaves.

Eight have fallen off since it has been in the schoolroom.

Now it has only   leaves.

The other ivy had six times eight leaves.

Now it has fifty-four, for   new leaves have grown.

Ned has made a box that will hold sixty minerals.

He has already four dozen in it. How many empty places are there?

One page of the *Transcript* has seven columns.

How many columns are there on eight pages?

If there are seven printed words on a line, how many words are there on seven lines?

There would be   words on nine lines.

Kate bought six two-cent stamps.

She bought a handkerchief for twenty cents.

How much did she spend?

The next day she spent twice as much.

How much did she spend in the two days?

On Wednesday, she had fifty cents.

She paid for five blank-books, and had five cents left.

She paid   cents for each book.

When twelve hands are raised in answer to a question, how many fingers may we see?

If one side of a square handkerchief measures fourteen inches, how many inches is it around the handkerchief?

That is four feet and   inches.

A broad step at the turn of the stairway is three feet higher than the landing before it.

Five steps lead to the turn.

Four of the steps are each eight inches high.

The fifth step is   inches high.

HOW CAN HE DO IT?

Neil is trying to divide a board five feet long into several equal lengths.

In how many ways could we divide it for him ?

I could have   lengths, each thirty inches long.

I could have four lengths,   inches long.

I could have five lengths,   inches long.

I could have   lengths, ten inches long.

I could have ten lengths,   inches long.

I could have twelve lengths,   inches long.

I could have fifteen lengths,   inches long.

I could have   lengths, three inches long.

I could have   lengths, two inches long.

First Neil measured by nine-inch lengths.

He had six lengths and   inches over.

Then he tried seven-inch lengths.

This time he had eight lengths and   inches over.

At last he divided it into   lengths, each twenty inches long.

CHAPTER LXIII. [W. and R., 169-178.

CHARLIE'S SOLDIERS.

Charlie had a soldier company.

There were fifty-six boys.

Sometimes Captain Charlie had them march in seven lines. Then there were   boys in each line.

One day only forty-nine boys came to drill.

They marched in seven lines. There were   boys in a line.

Once, when only forty-six boys came, Charlie had them march two by two.

There were   pairs of boys.

Six of the fifty-six boys left the company.

Captain Charlie formed those who came to drill into lines of ten. There were five lines.

When Charlie said, "Company, attention!" all the   boys looked at him.

There were a hundred eyes, blue, brown, and gray.

They belonged to   boys.

There were four dozen eggs in a large basket.

Cook needed only four for her muffins.

There were   times as many in the basket as she needed.

May's mamma sent six dozen glasses of jelly to the Children's Hospital.

How many glasses did she send ?

Marion took three dozen bunches of daisies to the Flower Mission.

To how many children can they be given, if each child has one ?

A poem of nine stanzas has eight lines in each stanza.   How many lines of poetry are there ?

There were forty-six pins in two rows,
pins in each row.

Mamma's forty-second birthday and Ned's seventh birthday came on the same day.

Mamma was   times as old as Ned.

In a rose garden there are eight rows of nine bushes each.

How many bushes are there in the garden ?

There are three roses on each bush in the first row.

How many roses are there in the first row ?

A rose leaf has five leaflets.

Nine rose leaves have   leaflets.

A sweet pea has ten stamens.

How many stamens have six sweet peas?

A sweet pea has five petals.

Nine sweet peas have   petals.

A violet has five petals.

Twelve violets have   petals.

The blossom of the pitcher plant has five tips upon its little green umbrella.

Each tip is a stigma.

How many stigmas have seven blossoms?

How many wings have twelve butterflies?

How many legs have nine kittens?

A spider has eight legs.

How many legs have nine spiders?

Harry has pressed nine flowers and eight times as many leaves. How many leaves has he pressed?

THE SAD STORY OF THE TADPOLE FAMILY.

We were tadpoles. There were six times twelve of us, brothers and sisters.

We lived in a trout brook.

When we were one-eighth of seventy-two days old, something happened.

Two boys came to see us.

They had a glass jar which they put into the water.

We wanted to see what was in it, so *seventy-two less sixty-two* of my brothers and sisters swam in as fast as they could.

Just then the boys took the jar out of the brook.

Soon the jar came back again, but there were no tadpoles in it!

We wanted to know where our brothers and sisters were gone, so sixty-three less than seventy-two of the family went into the jar, just to ask the boys about it.

While they were inside, the jar went out of the water again.

Then we held a meeting in the brook.

When the jar came back, we sent a party of one-ninth of seventy-two tadpoles to bring the others home.

The jar carried these away too, so we sent one-sixth of seventy-two more to find them.

But not one little taddie ever came back.

In twenty less than seventy-two days, something stranger still had happened.

We were not tadpoles any more!

We had lost our tails!

We had each four legs!

We could jump on logs!

Still we are very sad.

We sit on our logs and wonder if our brothers and sisters have any legs.

And if they live in the jar, have they any logs to jump on?

———————

"Lost! Yesterday, somewhere between sunrise and sunset, two golden hours, each set with sixty diamond minutes. No reward is offered, for they are gone forever."

HORACE MANN.

———◆———

CHAPTER LXIV. [W. and R., 178, 190.

IN THE WORKSHOP.

Two times twelve days after the third of November, Miss Field's class had been at school seven times seven days.

How many weeks had they been at school?

At eight times seven minutes of twelve they went to the workshop.

If seven times as many children had gone, there would have been eighty-four children.

If the flight of stairs had been sixty-four steps longer, they would have gone up eighty-four stairs.

Neil was making a box. It was one-sixth of seventy-two inches long.

He cut two sides, each twelve inches long.

The short sides were one-ninth of sixty-three inches long.

All the sides were one-twelfth of seventy-two inches high.

The board from which he cut the long sides was two times forty-two inches long.

After he had cut off the two long sides, the board was five times twelve inches long.

In putting the box together, Neil used three times twelve nails.

At one corner he used one-eighth of sixty-four nails.

At another corner he tried one-eighth of seventy-two nails.

Only one-ninth of sixty-three went in, for nails had no points.

One nail was so hard to set that it took one-eighth of fifty-six minutes.

Neil hit it seven times twelve blows with the hammer.

If he had worked seven minutes more, he would have worked eighty-four minutes on his box.

There were eighty-four nails in the package.

There are only forty-two now. How many has Neil taken out?

CHAPTER LXV. [W. and R., 195-198.

IN THE WORKSHOP. — *Continued.*

A piece of white wood stood in the corner.

It was one-fifth of sixty inches long.

It was one-sixth of forty-two inches wide.

It was one-eleventh of eleven inches thick.

Harry wanted to use it.

He needed a board one-fourth of thirty-two inches long.

He had to saw off _____ inches.

He wanted it one-eighth of forty-eight inches wide.

He planed off _____ inches.

It was just the right thickness.

He took a piece of sand-paper to smooth the board. It was one-ninth of fifty-four inches long and one-eleventh of forty-four inches wide.

He put it on a piece of pine wood.

He nailed it on with one-ninth of sixty-three tacks.

Harry's work bench has a deep drawer.

In it are one-sixth of seventy-two tools.

Last year he could use one-eighth of eighty-eight tools.

This year he uses one-eighth of ninety-six.

He has one-seventh of eighty-four iron tools.

He has one-eighth of twenty-four kinds of saws.

There are one-ninth of eighteen hammers in the drawer.

There are one-eleventh of thirty-three planes.

Richard is making a box one-eighth of seventy-two inches long.

George made one one-seventh of fifty-six inches long.

Mabel's box is one-seventh of sixty-three inches long.

Dora is making hers one-sixth of forty-eight inches long.

Melville made his one-fifth of forty inches long.

Grace's is one-sixth of fifty-four inches.

Nancy's box is one-eleventh of seventy-seven inches long.

It is one-eighth of fifty-six inches wide.

It is one-fifth of thirty-five inches deep.

Nancy's box is a .

Mr. Stone is fifty-six years old.

His son Blair is half as old.

Blair's sister Louise is half as old as he.

Robert's arithmetic lesson lasted one-half of sixty minutes.

During one-half of thirty-four minutes he was working on his slate. For the rest of the time he was reciting.

The hour-hand and the minute-hand are together at twelve o'clock.

When the minute-hand has passed over one-half of ninety-two minute-spaces, what time is it?

There is one-half of   seconds in half a minute.

There is a half of ninety minutes in quarters of an hour.

There is a half of forty-eight hours in a

There is one-half of sixty days in June.

There is one-half of   weeks in half a year.

There is one-half of twenty-eight days in
a   .

There is one-half of seventy-two hours in a
day and a half.

CHAPTER LXVI.   [W. and R., 194.

Mr. Frost has lived in Boston ninety-six
months.   How many years has he lived there?

How many months are there in seven years?

Margaret is just eight years old.   How many
months has she lived?

Margaret has visited in Brookline eight times
seven days.

She has visited in Roxbury seven times seven
days.

How many days has she spent in both places?

She visited   more days in Brookline
than in Roxbury.

She was in Brookline   weeks, and in
Roxbury   weeks.

She was in the two places   weeks.

A man engaged to do a piece of work in ninety-six hours.

When he had worked eighty-four hours, how many hours had he in which to finish the work?

He did the work in six hours less than the time in which he engaged to do it.

How many free hours has he?

Rachel found the cocoon of a butterfly.

She took care of it, and in May the butterfly came out.

It lived ninety-six hours.

This was twelve times as long as it took the wings to open.

How many hours did it live after its wings were open?

When the hour-hand has been around the clock seven times, how many hours has it marked?

When it has marked ninety-six hours, how many times has it been around the clock face?

How many days has it taken?

When the minute-hand has marked five times twelve minutes, how many times has it been around the clock?

How many hours has it taken?

When the hour-hand was on nine, our school
began.

Where was the minute-hand?

FATHER TIME'S FAMILY.

I went to pay a visit
  Inside the clock one day,
When all the little Hours
  Were having holiday.
I stayed from noon to midnight,
  And then again till noon;
Mrs. Time then asked me kindly,
  To " come again, and soon."
All her family are twins,
  Right busy little elves, —
The Ones, and Fives, and Sevens,
  Way on up to the Twelves.
There's One O'clock, the youngest,
  Who rings the dinner-bell;
And Two O'clock, his brother,
  Who does that work as well.
Then Three and Four, the sisters,
  Make calls, and go to drive;
And, near the clock, a cup of tea

Is served to us by Five.
Six shuts the western cloud-gates,
And then the daylight flies;
With Seven comes the Sandman,
Who closes children's eyes.
Eight brightens up the starlight,
And begs the moon to shine,
Then joins in work or frolic
His older brother, Nine.
Ten goes into the nursery
And nods the nurse's head,
For Eleven will soon be coming
To call the folks to bed.
Some of the Time family
The children seldom see, —
There's Twelve O'clock at midnight,
And One, and Four, and Three.
Two O'clock in summer
Some little children know,
For he wakes up the roosters,
And they begin to crow.
When Five calls up the stairway,
The dairymaid comes down
To milk the cows, and hunt the eggs
For little folks in town.

But Six O'clock, we know him,
   The sleepy little sprite!
He'd so much rather have a nap
   Than get up, 'cause it's light.
Eight feeds the sun with dewdrops
   When Seven has helped him rise.
Nine is a noisy schoolboy
   Who is learning to be wise.
The next are busy people :
   The world's at work with Ten ;
In school and farm and market
   Eleven's at work again.
Twelve rings the bell for resting,
   The workman stops to dine,
And children play at noontime
   Who went to school with Nine.

Two times a dozen children, —
   A busy family!
Tell me which little Hour,
   My dear, you'd rather be?

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